

Inmagic[®] DB/Text[®] *WebPublisher PRO* User's Manual

Publishing and Editing Textbases on the Web



INMAGIC[®]

**A guide for using DB/Text *WebPublisher PRO*
and the DB/TextWorks[®] buildware**

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Chapter 1: Overview of *WebPublisher PRO*

Congratulations on your purchase of Inmagic® DB/Text® *WebPublisher PRO*!

With *WebPublisher PRO*, you can publish, access, and maintain your Inmagic DB/TextWorks textbase information over the Internet or an intranet. Use it to manage Web site information within the framework of a textbase, instead of static HTML documents.

This manual explains how to use *WebPublisher PRO* together with Inmagic DB/TextWorks® to publish textbases on the Web.

Although they are separate applications, the two products are closely related, and you need both of them to publish information on the Internet or an intranet.

- **DB/Text *WebPublisher PRO*** is a Web publishing and information retrieval tool, which accepts queries from standard Web browsers, such as Microsoft Internet Explorer, and accepts XML function calls. The software returns search results in dynamically generated HTML and XML reports, and allows for editing over the Web.
- **DB/TextWorks** is the “buildware,” the database software that you use to build the textbases (text databases) that you want to publish. DB/TextWorks is a textbase system—a type of database software that enables you to build networked and standalone textbases to manage text, numbers, dates, and electronic images. DB/TextWorks combines traditional database power, including the ability to manipulate data and perform arithmetic calculations, with the ability to handle large amounts of text.

DB/Text *WebPublisher PRO* is ideal for publishing text-intensive information that is likely to change on a regular basis, including:

- Catalogs and other information products on an intranet or the Web.
- Intranet publishing, such as Human Resource policies and competitive intelligence documents.
- Customer or prospect services, such as Help Desk, knowledgebase, and product catalogs.
- Research and resources for a company project, to which users can add URLs of relevant Web sites they discover.

WebPublisher PRO consists of program files that accept queries and actions submitted over the Web and return results in dynamically formatted HTML or XML output. For the Webmaster or knowledge management specialist, this means there is no interface for *WebPublisher PRO*; there is no icon on the desktop or on your Windows **Start** menu.

A Web interface is designed either using the WYSIWYG tools within DB/TextWorks, or with third-party tools (such as, Microsoft FrontPage). If you choose the latter, you submit actions to *WebPublisher PRO* using XML syntax to enable your interface to query your DB/TextWorks textbase. For information about the XML syntax accepted by the software, see the *Inmagic Web Products Technical Notes* and the schema documentation, both located at <http://support.inmagic.com/web>.

Terminology

This manual uses the following terms. For other definitions, see the Glossary on page 89.

- **Webmaster.** The Web server administrator.
- **Textbase designer** or **textbase administrator.** The person who uses DB/TextWorks and *WebPublisher PRO* to prepare textbases for Web access.
- **User.** The person who searches a textbase by means of a Web browser.
- **Search screen, query screen, HTML search page.** An HTML page created with DB/TextWorks to allow users to search a textbase over the Web.
- **Edit screen, edit page.** An HTML page created with DB/TextWorks to allow users to add, edit, and/or delete records in a textbase over the Web.

WebPublisher PRO Features

With *WebPublisher PRO*, your users can:

- **Search for records via the Web.** Access records via a Web browser from any computer with an Internet connection (or an intranet connection if you are publishing to your intranet).
- **View actual data for which they can search.** Users can click a button to see actual data from the textbase. They can paste words to search for, to find exactly what they want.
- **Experience fast, precise searching.** Searching is fast and precise, even through thousands of records.
- **Search using various methods.** Users can search multiple fields or run predefined searches, just by clicking a link. They are not limited to a single, broad keyword search that can turn up hundreds of unwanted hits. Instead, they can search multiple fields at the same time, achieving a high accuracy rate. For example, rather than searching for liberal arts colleges and getting 700 hits, they can search for co-ed liberal arts colleges in New England that have fewer than 2,500 students and get a more precise list of hits.
- **Search more than one textbase at a time.** Users can search multiple textbases with a single Web query screen. For example, a user can search separate textbases containing books, periodicals, and research papers at the same time for a particular author. The results are formatted in a single, dynamically generated HTML report. (Note that this feature is not available for XML input/output.)
- **View information in dynamically created displays.** Searches in *WebPublisher PRO* retrieve the most up-to-date information in the textbase at that moment.
- **View information in any number of ways.** Content (records in the textbase) and format (layouts that you design) are controlled separately, so users can see multiple views of the same data (for example, a brief summary of information in tabular format or all information in a particular record). Compare this to viewing a static HTML page, where the content and format are one and the same.
- **Calculate, sort, and manipulate data.** Data can be manipulated in a variety of ways and the results are displayed dynamically on the Web.
- **Modify records in a textbase from the Web.** Users can add, edit, and/or delete records in a textbase from a Web browser. This is done using forms and screens designed in DB/TextWorks or with a custom-built interface that submits XML to *WebPublisher PRO*.

How *WebPublisher PRO* Works

By combining its searching power with Extensible Markup Language (XML) and Simple Object Access Protocol (SOAP) capabilities, *WebPublisher PRO* lets you to integrate your DB/TextWorks textbases with other applications. This means you can create interactive forms using standard third-party tools (such as, Microsoft FrontPage).

WebPublisher PRO is a powerful tool that enables you—regardless of your level of HTML and XML expertise—to design screens and forms so your users can search, display, and edit records over the Web.

The software can be used in two distinct ways:

- **As a WYSIWYG tool.** Using the designers in DB/TextWorks, you can design forms and screens for Web use in a WYSIWYG (what you see is what you get) manner. The software does the HTML formatting for you. This method is for those who may not have access to a Web designer with XML/XSL know-how, and for those whose needs do not require custom-built Web interfaces. It enables a non-Web designer to easily create a Web interface from within the software. Your users can search a textbase, view results in a variety of ways, and add, edit, and/or delete records from a Web browser.
- **With an XML/XSL custom interface.** Using a third-party tool (for example, Microsoft FrontPage), you can build your own Web interface. Then, using the read-write XML features of *WebPublisher PRO* (including the ability to query a DB/TextWorks textbase via the Web using XML), enable that interface to search, add, edit, and/or delete records in your textbase over the Web. This method is for advanced designers, or for those with access to a Web designer with XML/XSL skills.

This manual discusses the WYSIWYG way of using the software. Note, however, that many of the HTML-based settings for the WYSIWYG method are detailed in the *Inmagic DB/TextWorks User's Manual*. You will be referred to that manual, when appropriate.

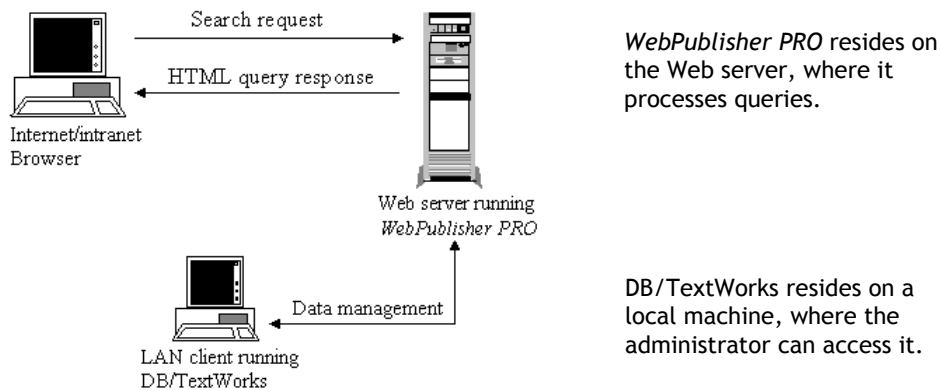
For information about using the software with an XML/XSL custom interface, see the *Inmagic Web Products Technical Notes*, an HTML document available at the Inmagic Web site (<http://support.inmagic.com/web>).

How Do *WebPublisher PRO* and *DB/TextWorks* Work Together?

WebPublisher PRO combines the power of a Database Management System (DBMS) with the speed and flexibility of a text-retrieval system, to provide a superior method of Web site maintenance, access, and presentation.

Instead of having to produce separate, static HTML pages for your Web site, you can place information in a *DB/TextWorks* textbase and put that textbase on your server. Now anyone who goes to your Web site can search your textbase to find the information they need.

WebPublisher PRO can run in an Internet or intranet environment. The following illustration shows a typical LAN/WAN topology.



The following components are involved:

- **Browser Software.** The only user requirement is a Web browser, which users point to a search screen to submit queries and display results.
- **HTTP Server Software.** Passes information between the browser and *WebPublisher PRO*.
- ***WebPublisher PRO*.** Processes queries from your users and returns dynamically formatted results. There is no Windows user interface.
- ***DB/TextWorks*.** The buildware, a database application that the textbase designer uses to create and maintain textbases, forms, and HTML search and edit screens.

Documentation and Other Resources

This manual assumes that you have a basic understanding of Internet issues and terminology, including HTML, URL, and the World Wide Web. It also assumes that you are familiar with DB/TextWorks and that you know how to create textbases, forms, query screens, and menu screens. For information about DB/TextWorks, see the *Inmagic DB/TextWorks User's Manual* and the DB/TextWorks online help.

In addition to this manual, you can use the following resources to learn about *WebPublisher PRO*:

- **Cars textbase.** A sample textbase you can use with the tutorial exercises in Chapter 9.
- **Online help.** Help for *WebPublisher PRO* is integrated in the DB/TextWorks online help, to explain the many DB/TextWorks features that support *WebPublisher PRO*. To access the help, start DB/TextWorks, choose **Help>Help Topics** or press **F1**.
- **README.HTM.** An HTML document that contains important information for textbase designers and Webmasters. It is located in the *WebPublisher PRO* installation directory. It also details recently implemented *WebPublisher PRO* features.
- **Knowledgebase and Web site.** Start DB/TextWorks and choose **Help>Inmagic on the Web>Knowledgebase** to go to the Inmagic Product Support knowledgebase on the Web, where you can search for solutions to common problems. Visit the Inmagic Web site (www.inmagic.com) by choosing **Help>Inmagic on the Web>Home Page** or **Help>Inmagic on the Web>Support Page**.
- **Inmagic Web Products Technical Notes.** An HTML document that explains how to use XML input with Inmagic Web products. It is located on the Inmagic Web site (<http://support.inmagic.com/web>).
- **Inmagic Web Products Schema Documentation.** An HTML document that describes the input schema for Inmagic Web products. It is located on the Inmagic Web site (<http://support.inmagic.com/web>).
- **HTML help pages for users.** HTML pages that explain query methods and error messages. For more information, see “How Users Get Help” on page 14.

Chapter 2: User Requirement and Resources

This chapter explains how your users use *WebPublisher PRO*, and discusses documentation provided for them.

How Do Users Use *WebPublisher PRO*?

If you design your Web interface using the WYSIWYG tools in DB/TextWorks (that is, with the Query Screen Designer, Form Designer, and/or Menu Screen Designer), anyone with a Web browser can point to an HTML search screen and submit a query.

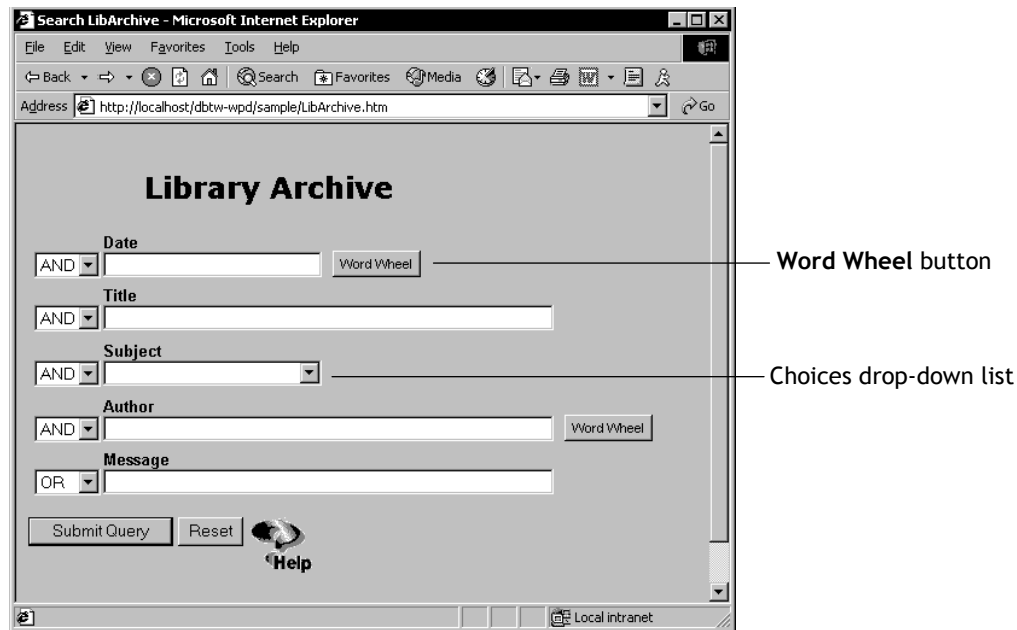
To help make searching and editing more intuitive, you can include Word Wheel buttons and choices drop-down lists to query screens, or add validation list links to edit pages.

If the textbase has passwords, you can add a password box to search or edit screens so users can enter a password. The password can restrict access to the textbase as a whole, or to particular fields and/or individual records.

You can also design a menu screen containing predefined queries. This lets your users click a link to submit a query for which you have already specified the criteria. This can be useful if your users will be submitting the same query on a regular basis.

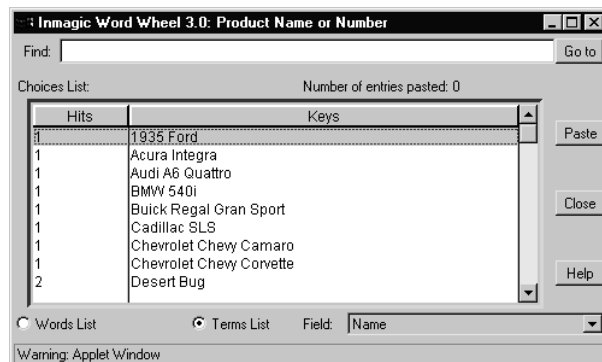
Searching with Word Wheels and Choices Drop-down Lists

When searching, users can select items to search for from a Word Wheel or choices drop-down list.



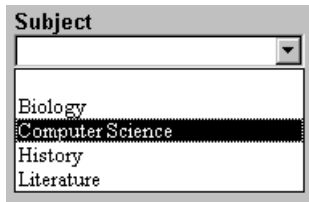
Tip! You can add Boolean drop-down lists in front of each box on a Web query screen. If you do this, users can select **AND**, **OR**, **NOT** from the drop-down list to control how multiple criteria are combined.

If a user clicks a Word Wheel button, a dialog box that shows indexed information from the textbase opens.



To use Word Wheels, users need specific versions of Microsoft Internet Explorer or Netscape Navigator. For browser requirements, click the **Help** button to open an HTML page (WEB_WW.HTM) and see the "Troubleshooting: Word Wheel" section.

A choices drop-down list lets users select an item from a list and is useful for fields that contain just a few entries.



A screenshot of a web form element labeled 'Subject'. It is a drop-down menu with a small downward arrow on the right. The menu is open, showing a list of subjects: Biology, Computer Science (which is highlighted with a dark background), History, and Literature.

For information on how to include Word Wheels and choices drop-down lists on the search screens you design, see “Chapter 5: Designing Query Screens for Web Use,” the “Adding Word Wheels to a Query Screen” section on page 43 and the “Adding a Choices Drop-down List to a Query Screen” section on page 44.

Using Validation List Links on Edit Screens

When users are adding or editing records over the Web from an edit screen, they can click a validation list link to open the Inmagic Choices Browser window and paste entries from a validation list.

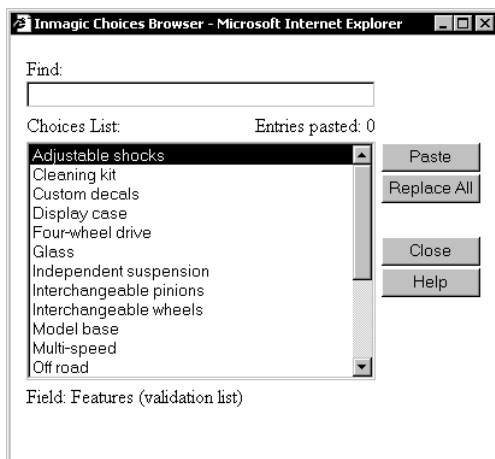
When a field has a validation list, its box label is turned into a hypertext link.

This box label appears as a hypertext link to the Inmagic Choices Browser window.



A screenshot of a web form element labeled 'Features'. The label is a hypertext link. To the right of the label is a list of items: Custom decals, Display case, Cleaning kit, and Glass. The list is enclosed in a box with a small upward arrow on the left and a small downward arrow on the right.

When a user clicks the link, the Inmagic Choices Browser window opens and displays the items from the field's validation list. The user can select and paste entries from the list.



A screenshot of the 'Inmagic Choices Browser - Microsoft Internet Explorer' window. The window has a title bar with the text 'Inmagic Choices Browser - Microsoft Internet Explorer'. Inside the window, there is a 'Find:' text box at the top. Below it, there is a 'Choices List:' section with a list of items: Adjustable shocks, Cleaning kit, Custom decals, Display case, Four-wheel drive, Glass, Independent suspension, Interchangeable pinions, Interchangeable wheels, Model base, Multi-speed, and Off road. To the right of the list are buttons for 'Paste', 'Replace All', 'Close', and 'Help'. At the bottom of the window, it says 'Field: Features (validation list)'.

For information on how to include validation list links on edit screens you design, see “Chapter 4: Creating Forms for Web Use,” the “Creating Validation List Links” section on page 34.

Using Predefined Queries on a Menu Screen

A Web menu screen is an HTML page that includes one or more predefined queries. To the user, the predefined queries look like regular hypertext links.

If you design a menu screen, users can click links to submit queries you predefine, without having to enter query criteria in a query screen.

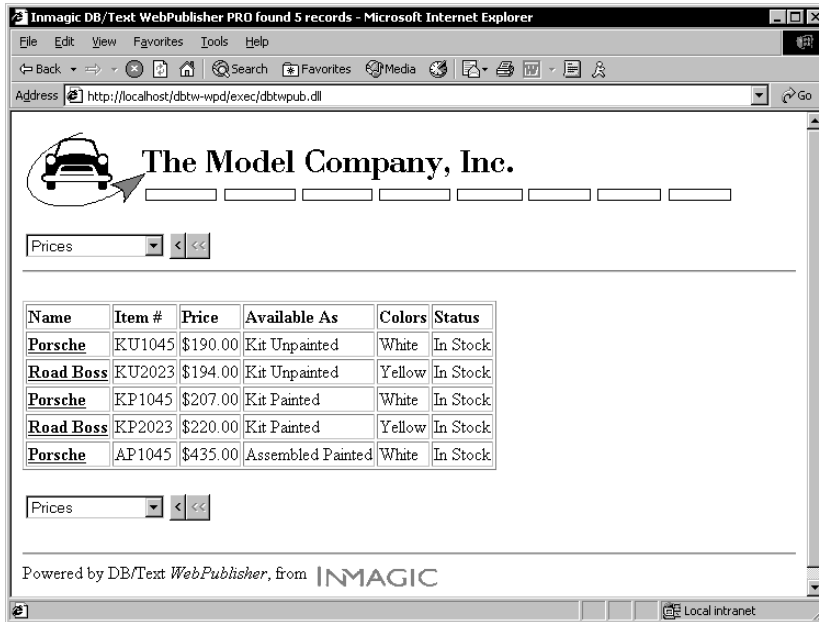
For more information about designing menu screens for the Web, see “Chapter 6: Designing Menu Screens for Web Use” on page 53.

On a menu screen, users click links to run predefined queries.



Viewing the Results of a Query

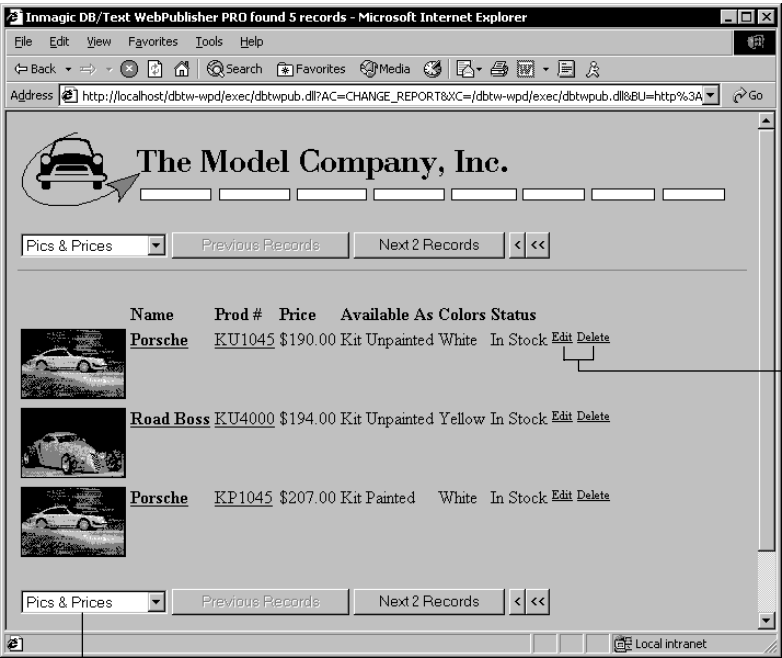
When a user submits a query—either by clicking a link on a menu screen or clicking the **Submit Query** button on a Web search screen—the search criteria are passed to *WebPublisher PRO*, which performs the query, optionally sorts the records, formats the results (or an initial subset of results), and returns the information to the Web browser in HTML format.



The user can use the standard Web browser controls to look at the records, return to the home page, print, and so forth. *WebPublisher PRO* provides additional controls, such as navigation buttons on the report.

Record appearance is controlled by forms that are designed with DB/TextWorks. Users can change record appearance dynamically by selecting different forms from a drop-down list on the page. If the textbase designer created a form with New record, Edit record, and/or Delete record links, users can add, edit, and/or delete records over the Web.

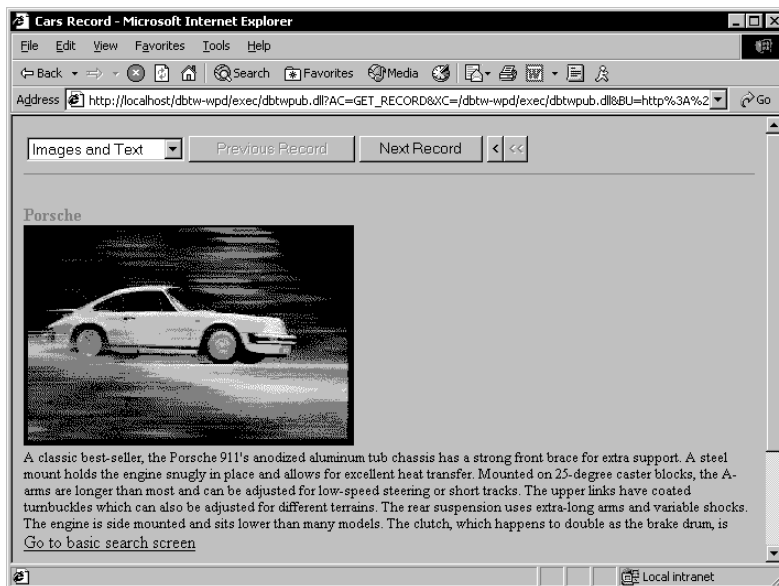
The following illustration shows the same records from the previous illustration, but after the user selected a different form. The form selected contains pictures, more information, and Edit record and Delete record links.



A user can click the Edit or Delete link to open the record in an edit screen from which he or she can edit or delete the record.

A user can select a different form to see a different view of the records.

Forms that display multiple records (such as the forms in the previous two illustrations) often include a hypertext link to a single-record display. Users can click the link to see a detailed view of one record at a time. This is called expanding a record. For example, if you click the first **Porsche** link on the report shown in the previous illustration, you see a single-record display.



An expanded view shows one record at a time.

After expanding a record, the user can perform some or all of these tasks:

- Display the next or previous record using the **Next Record** or **Previous Record** buttons.
- If the textbase designer included Edit record or Delete record links, edit or delete the record.
- If the textbase designer included a New record link, open an empty edit screen to add a new record to the textbase.
- Change the appearance of the record by selecting a different form from the form drop-down list.
- Return to the report by clicking the Rewind button (<<), or the **Close** button if the expanded record opens in a separate browser window. (For more information about the parameter needed for an expanded record to open in a separate browser window, see the DB/TextWorks online help.)
- Print the record using the currently selected form to format the output. The Web browser software may also have an effect on output (for example, by numbering pages).
- Return to the query or menu screen using the **New Search** button. Note that you must add a parameter to the DBTWPub.INI file for this button to appear, and the expanded record must open in the same browser window as the report. This feature is also available on the report page. For more information, see the DB/TextWorks online help.

How Users Get Help

WebPublisher PRO includes several HTML help pages:

- **WEB_BEGIN.HTM.** Explains how to perform a query and display results. Users can view this page by clicking the Help icon on an HTML query screen in the Web browser.
- **WEB_WW.HTM.** Explains how to use the Word Wheel. Users can view this page by clicking the **Help** button in the Word Wheel dialog box in the Web browser.
- **WEB_ICHOICES.HTM.** Explains how to use the Inmagic Choices Browser to paste entries from a validation list into an edit screen on the Web.
- **WEB_MSG.HTM.** Displays an alphabetical list of default error messages. Intended primarily for administrators, although you may allow users access. Users can view this page from links on the .HTM help pages mentioned above, where provided. Note that the administrator can change the text of the message, if needed.

The textbase designer is free to make changes to these pages. After making changes, check all links in a browser to make sure everything works as intended.

Chapter 3: Getting Started

With DB/TextWorks and *WebPublisher PRO*, you have all you need to create a textbase and design Web query screens, menu screens, and forms to display and edit information. This chapter details what you need to do to get started.

Creating a Textbase

Before you can start designing forms and screens for Web use, you need a textbase.

Use DB/TextWorks to create a textbase, defining the fields you want, as well as the features for each field (for example, validation).

This section provides basic information about creating a textbase. For more detailed information, see the *DB/TextWorks User's Manual* or the online help.

To create a textbase in DB/TextWorks

1. Start DB/TextWorks.
2. Choose **File>New Textbase** to open the Specify New Textbase dialog box.
3. In the **File name** box, enter the name of the textbase you want to create (for example, type *Marketing*), then click the **Save** button.
4. On the Create Textbase Structure dialog box, select the **Define New Textbase** option button, then click **OK**.
5. On the Edit Fields dialog box, specify the fields you want to make up your textbase. For example, type *Title* in the **Field Name** box, then click the **Add** button.
6. On the Type and Indexing tab, select a field type for the field from the **Field Type** drop-down list. If applicable to your needs, specify the appropriate indexing and Special Filing options on this tab, as well. Click the **Change** button when you are done.

Note: You can use the other tabs on this dialog box to specify other attributes for your field (for example, specify a validation list). Click the **Help** button on the Edit Fields dialog box for more information about these tabs.

7. Repeat steps 5 and 6 for each field you want to include in the textbase.
8. Click **Close**.

9. On the Edit Textbase Structure dialog box, click **OK**.
10. A message notifies you that the textbase is empty. Click **OK** to dismiss the message and open the Edit window. The Edit window displays a New Record edit form, so you can add records.
11. Add a record to the textbase. Type information in the boxes, then choose **Record>Save Records**. To add another record, choose **Records>New Record**.

Specifying Web Options in the Textbase Structure

When publishing a textbase on the Web, there are several Web options that you may want to apply.

Use the Edit Textbase Structure dialog box (choose **Maintain>Edit Textbase Structure**) to specify the following, as applicable:

- **Passwords.** You can apply a Master, Field Access, and Silent password to restrict access to the textbase entirely, to certain fields, or even to specific records. Passwords work on the desktop and the Web. However, to use them on the Web with *WebPublisher PRO*, you must add a password box to a query screen or edit form. For more information, see “Using Passwords on the Web” on page 17.
- **Sort Order.** The order in which records display on the Web is controlled by the form used to display the information. However, if a form does not have a compulsory form sort applied, sorting is determined differently, depending on whether you are using HTML output (using forms designed in DB/TextWorks) or XML output (using a custom-built interface created outside of DB/TextWorks). For more information, see “Sorting on the Web” on page 18.
- **XML Match Fields.** If you plan to edit records over the Web using edit forms you create in DB/TextWorks, you should specify XML match fields to uniquely identify the record in the textbase that *WebPublisher PRO* is being asked to modify. For more information, see “Specifying XML Match Fields” on page 19.

Note: There are other textbase options that can be applied to a textbase from the Edit Textbase Structure dialog box, although they are not specific to textbases used on the Web. For more information about these other options, click the **Help** button on the Edit Textbase Structure dialog box or see the *Inmagic DB/TextWorks User's Manual*.

Using Passwords on the Web

You can assign passwords to a textbase to restrict access to the textbase as a whole, to certain fields, and/or to individual records.

The Master, Field Access, and Silent passwords you define in the textbase structure (choose **Maintain>Edit Textbase Structure**, then click the **Passwords** button) are applicable to the Web. For information about assigning passwords to a textbase, see the *Inmagic DB/TextWorks User's Manual*.

To use passwords on the Web, you must add a password box to a query screen or edit form so users can enter their password.

Tip! This can be useful on intranets, where the textbase administrator can assign passwords to allow certain users access. This can also be useful on the Internet for limiting access to a textbase on your Web site, perhaps if you are charging for services offered. Only those users who request and obtain a password—after submitting payment, for example—can gain access to the textbase.

Consider the following when deciding whether to use passwords on the Web:

- If a textbase has Field Access and/or Silent passwords assigned, and you do not put a password box on the query or edit screen, the Silent password is used.
- If the screen has a password box but the user does not type anything in it, the Silent password is used. If the textbase has passwords, but no Silent password has been defined, then the screen must have a password box into which the user can type a password. If not, no one will be able to gain access to the textbase from that screen.
- When you use a query screen with a password box on the Web, the software automatically retains the password throughout your current browser session. For example, if a user submits a search, edits a record, then clicks the Rewind (<<) button to return to the query screen, the password box will still be populated with the password. Keep this in mind when deciding whether to add a password box to an edit screen. If there is a password box on the query screen, it may not be necessary to have another one on the edit screen.

Important! For the password to be remembered during the current browser session, cookies must be enabled for that Web browser.

For details on how to add a password box to a query screen see “Adding a Password Box to a Query Screen” on page 45. For details on how to add a password box to an edit form, see “Adding a Password Box to a Web Edit Form” on page 27.

Sorting on the Web

When records are displayed on the Web, sort order is determined by the textbase default sort order (choose **Maintain>Edit Textbase Structure**) or by the compulsory form sort specified for the form selected in the Web browser.

The user has no way to sort records, so you should consider adding a compulsory sort to Report forms that you design for the Web, unless the textbase default sort is suitable. To specify a compulsory sort, choose **Report Options>Compulsory Sort** in the Form Designer.

The following Compulsory Sort options are ignored, because they can change the perceived number of records retrieved: **Exploded Sort**, **Interfile**, and **Omit Those Records** (click **Primary Sort Field Options**).

Sorting records is explained in detail in the *Inmagic DB/TextWorks User's Manual* and in the online help.

If you are using *WebPublisher PRO* with a custom-built XML interface, you can specify the sort order in the XML input you submit to the software. For more information, see the *Inmagic Web Products Technical Notes*, located at <http://support.inmagic.com/web>.

Specifying XML Match Fields

When editing or deleting records over the Web, *WebPublisher PRO* uses match fields to uniquely identify the record it is being asked to modify in the textbase. XML match fields are defined in the textbase structure (choose **Maintain>Edit Textbase Structure**, then click the **XML Match Fields** button).

When you are editing or deleting a record and click the **Submit Record** or **Delete** button, the software compares the match field(s) to the records in the textbase to ensure the correct record is updated/deleted.

You can match on up to five fields; however, in most cases, one field is sufficient. The combination of match fields must contain unique contents, such as an Automatic Number or other unique identifier (for example, employee identification number). If you match on only one field, that field should be present and unique in every record. To be sure, you can use an Automatic Number field, or a field with **Unique Entries Only** and **Field Entry Required** validation applied.

When editing an existing record over the Web, you cannot change the contents of any of the match fields.

Note: If you do not specify any match fields on the Specify XML Match Fields dialog box, *WebPublisher PRO* uses the first field specified on the Textbase Log File dialog box.

To specify XML match fields

1. With your textbase open, choose **Maintain>Edit Textbase Structure** to open the Edit Textbase Structure dialog box.
2. In the Textbase Options group, click the **XML Match Fields** button to open the Specify XML Match Fields dialog box.
3. From the Available Fields list, select a field on which you want *WebPublisher PRO* to match.
4. Click the right-arrow button to move this field from the Available Fields list to the Match Fields list. Only Term-indexed fields can be used for matching purposes. Fields that do not have a Term index do not appear in the list.
5. Repeat for each match field you want to use, up to a maximum of five.

Note: The combination of fields must uniquely identify the record.

6. Click **OK**.

Important! XML Match Field information is stored in the textbase .INI file. If you copy the textbase to your Web server, be sure to copy this file, as well. When editing or deleting records over the Web, *WebPublisher PRO* uses match fields to uniquely identify the record it is being asked to modify in the textbase.

Publishing on the Web with WYSIWYG Tools

For those who may not have access to a Web designer with XML/XSL know-how, you can design your own forms and screens using the three designers within DB/TextWorks: Form Designer, Query Screen Designer, and Menu Screen Designer.

Use the following steps as a guide to publishing a textbase on the Web with the WYSIWYG tools of DB/TextWorks.

To publish a textbase on the Web

1. **Create the textbases.** Use DB/TextWorks to create textbases that Internet/intranet users will search. Put the textbases anywhere that *WebPublisher PRO* can access them. The textbases can be in a shared location, or you can store the textbase locally and copy it up to the HTTP server whenever you make a change.
2. **Create the forms.** Use the Form Designer in DB/TextWorks to create forms that will be used to display records in the Web browser. You should design one or more Report forms for displaying multiple records retrieved, and one or more Display forms for expanded display of one record at a time. If you plan to let users add, edit, and/or delete records over the Web, you should design one or more Edit forms.

Tip! Tabular report forms, which present information in rows and columns, are a useful way to display a summary of records found after a search. The user can expand each record to see more information. For more information about tabular forms, see the *Inmagic DB/TextWorks User's Manual*.

In the Form Designer, be sure to choose **Tools>Box Properties>HTML** and **Tools>Form Properties>Logos/HTML** and specify HTML attributes.

Note: If you want to provide your users with direct Web access to an edit screen from which they can add records (for example, a registration form for an event), create an Edit form and export it to HTML. Edit forms are the only type of form that can be exported to HTML. For more information, see “Exporting Editing Screens to HTML” on page 37.

3. **Save the forms.** When you save each form in the Form Designer, select these options:
 - Save in **Textbase File (Public)**. This ensures that when you place the textbase files on the server the forms will be there too.
 - **Web** from the Use For group.
 - One or more of the following from the Use For group, depending on the purpose of the form:
 - ◆ **Display Window.** Select this check box to have this form appear in the expanded display form lists on the Web.
 - ◆ **Report Window.** Select this check box to have this form appear in report form lists on the Web.
 - ◆ **Edit Window.** Select this check box to enable the form to be used to add, edit, and delete records over the Web.

Note the following important issues about forms:

- Forms are not separate files. They are saved in the textbase, so you do not have to take any extra steps to place forms on the server, nor do you have to convert them to HTML. The software performs HTML formatting for you.

Note: This is true of all forms except edit forms you plan to allow users to access directly on the Web to add records to your textbase. If this is the case, you must save the form for use in the Edit Window, and it must be exported to HTML.

- Use **Tools>Screen Properties>HTML** for query screens, and **Tools>Box Properties>Initial Elements** for menu screens to specify which Report, Display, and Edit forms to use initially in the Web browser.
 - Printed reports use whichever form is displayed in the browser when the browser Print command is used.
4. **Create an HTML query search screen.** A query screen is a search form that users type query criteria into, in order to search for records. Use the Query Screen Designer to design a query screen, then export it as HTML. Place the resulting HTML page anywhere on your Web site.
 5. **[Optional] Create an HTML menu screen.** You can use a menu screen instead of, or in addition to, a query screen. A menu screen is a list of one or more predefined searches. The searches appear to a Web user as a list of hypertext links. Clicking a link generates a search and returns records to the Web browser. Use menu screens when you want to “protect” users from having to specify query criteria, or when many users are likely to want to perform the same searches. Use the Menu Screen Designer to create a menu screen and export it to HTML.
 6. **Give users a way to get to the query screen or menu screen.** Put the HTML page anywhere accessible to the HTTP server. Then make sure that Web users have a way to get to that page. For example, add a hypertext link to a page on your Web site that jumps to the HTML page. Or make your home page the query screen or menu screen itself. If you are publishing multiple textbases, a page on your Web site could include a list of the textbases, with each item being a jump to the appropriate HTML query screen.
 7. **Test your textbases.** Before you make your textbases widely available on the Internet or an intranet, test them locally to be sure that everything works the way you intended.

Chapter 4: Creating Forms for Web Use

You design forms for use with *WebPublisher PRO* the same way you design forms for DB/TextWorks—using the Form Designer.

However, unlike forms created for the desktop, there are several HTML properties you can add to a form that is used on the Web.

HTML properties can apply not only to forms as a whole, but also to individual boxes within forms. You can select Web-specific properties from the menu locations listed below.

- **Tools>Form Properties>Logos**
- **Tools>Form Properties>HTML**
- **Tools>Box Properties>HTML** (form and text boxes)

These properties only affect forms used on the Web. They are ignored for forms used on the desktop.

For details about designing forms in general (that is, adding form boxes, background color, and so forth), see the *Inmagic DB/TextWorks User's Manual*.

Adding Logos to a Form

Use the Logos tab on the Form Properties dialog box (choose **Tools>Form Properties>Logos**) to add images to the top and/or bottom of a form.



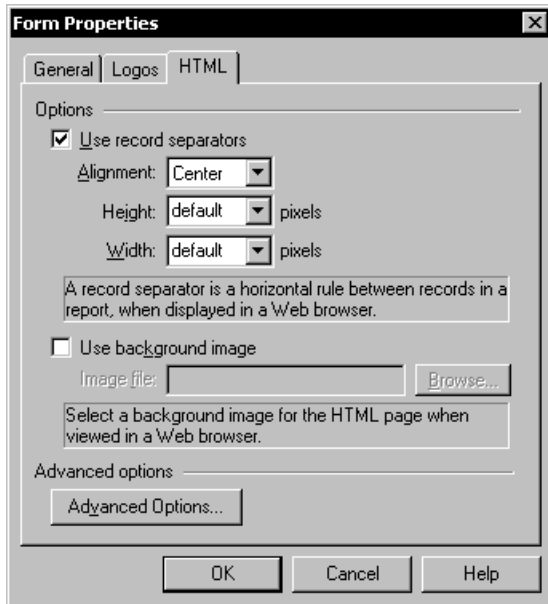
Type the image name in the **Leading Logo** and/or **Trailing Logo** box, or click the **Browse** button to navigate to it.

For more information, click the **Help** button on the dialog box, or see the *Inmagic DB/TextWorks User's Manual*.

For information on image file locations, see “Logo and Background Image File Locations” on page 69 of this manual.

Adding HTML Properties to a Form

Use the HTML tab on the Form Properties dialog box (choose **Tools>Form Properties>HTML**) to add HTML-related properties to a form. You can specify that record separators be used, add a background image to the form, and/or add HTML to the <head> section of the page.

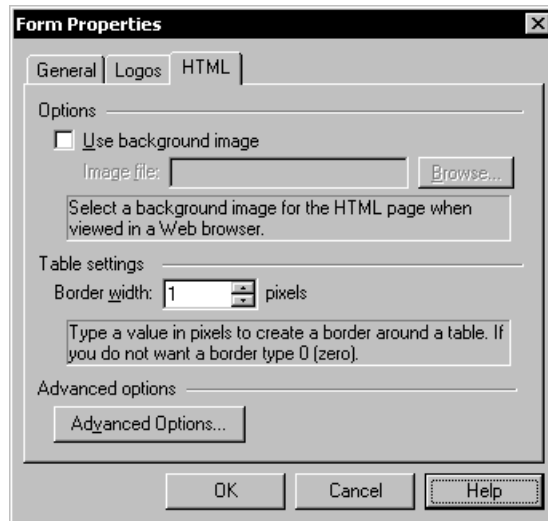


For details about these settings, see the *Inmagic DB/TextWorks User's Manual*, or click the **Help** button on the dialog box.

Using HTML Properties in a Tabular Form

If you are designing a tabular form, the options on the HTML tab of the Form Properties dialog box differ slightly from those available for non-tabular forms. While you can specify a background image for the page and include HTML in the <head> section of HTML reports, there are no settings for record separators. This is because records appear in a table, with each row designating a record.

This tab also lets you specify the width (in pixels) of the border around the table.



For details about these settings, see the *Inmagic DB/TextWorks User's Manual*, or click the **Help** button on the dialog box.

Adding HTML Properties to Form and Text Boxes

When designing a form, use the HTML tab on the Form Box Properties and Text Box Properties dialog boxes to specify Web-only features.

There are several HTML properties that you can add to form and text boxes:

- **Validation list links.** [Form boxes only.] Specify that you want the field(s) in a specific form box to have a validation list link on Web edit forms. The field(s) must have a validation list. Users click the link to open the Inmagic Choices Browser and paste entries into the edit form. This option is only applicable to Edit forms saved for use on the Web. (This option is only necessary if you have turned off the automatic validation list link feature and want to apply validation list links to individual fields on your edit form. For more information, see “Turning off automatic validation list links” on page 35.)
- **Password boxes.** [Form boxes only.] You can specify that a form box be used as a password box, so users can enter a password on a Web edit form. This option is only applicable to edit forms saved for use on the Web. Consider whether you want to add a password box, as an edit screen accessed after a search from a query screen with a password box will have that password carried through to the edit screen.
- **Treat content item as/Treat text as.** [Form and text boxes.] Use these drop-down lists to have the content item selected from the Contents list (for form boxes) or the text you specify (for text boxes) treated in the way you want (for example, as **Raw HTML**, as a **URL**, as a **New record link**). Each of the options you can select is detailed in the *Inmagic DB/TextWorks User's Manual*. However, some of them are explained in the following section.

Adding a Password Box to a Web Edit Form

When you design an edit form for Web use, you can add a password box to the form so users can enter a password.

Note: Passwords entered into a query screen are carried through to the edit form used, if you are editing over the Web. Take this into consideration when deciding whether to add a password box to an edit form.

To add a password box to a Web edit form

1. In the Form Designer, open the edit form you plan to use on the Web and add a form box (choose **Edit>Add>Form Box**).
2. On the Form Box Properties dialog box, select the Labels tab and do the following:
 - a. Select the **Label** check box.
 - b. In the **Label** box, enter the label you want to appear on the box. For example, type `Enter Password`.
 - c. From the **Label position** drop-down list, select an option to specify where the label appears (for example, **Left** or **Top left**.)

3. Save the form. If you have not done so already, select the **Edit Window** check box on the Save Form As dialog box (choose **Form Operations>Save Form As**). The form must be saved for use in the Edit Window for the **Web box treatment** drop-down list (see the next step) to be enabled.
4. On the HTML tab, from the **Web box treatment** drop-down list, select **Password**.
5. Click **Apply**, then **Close**.

Using Raw HTML

When designing query screens, menu screens, and forms for Web use, you can specify that box content be interpreted as Raw HTML (for example, to specify that a hypertext link to a new page opens a new browser window).

To specify Raw HTML, add a form box or text box to a form, or add a text box to a query or menu screen. On the HTML tab of the applicable Box Properties dialog box, select **Raw HTML** from the **Treat content item as/Treat text as** drop-down list.

Specifying Raw HTML causes the box content to be passed through to the Web browser. When the form is used on the Web, the browser will attempt to interpret the contents of the box as HTML.

An example

In the following example, Raw HTML is used to tell the software to open a particular HTML page in a new browser window.

Note: These steps are applicable to forms, query screens, and menu screens.

1. With the form or screen you want to use on the Web opened in the appropriate designer, choose **Edit>Add>Text Box** to add a text box and open the Text Box Properties dialog box.
2. On the Text tab, in the Text box, enter the text you want interpreted as Raw HTML (for example, type `Click here to search.` to have the link created open a page called SEARCHFORM.HTM in a new browser window.
3. Click **Apply**, then **Close**.

When records are displayed in the browser using this form, the user will see this text in each record:

Click here to search.

Clicking the text will open the specified search form (SEARCHFORM.HTM) in a new browser window.

The purpose of Raw HTML is to correctly interpret HTML that cannot otherwise be specified in the DB/TextWorks designers. For example, in the example above, if you did not want to open the form in a new window (that is, you remove `target="_blank"`), you do not need to use Raw HTML. Instead, treat the text as a URL and specify alternate link text.

Using a hypertext link to access another location on an Intranet

On a suitably configured intranet, you can launch applications from a form, query screen, or menu screen. For example, a link on a report could open a document in Microsoft Word or run a video clip. Web users need network access to the necessary application(s) and files. Be sure to communicate this to the Webmaster in case there are firewall or security issues. For more information, see “Chapter 8: For the Webmaster” on page 63.

The target file on the server should be accessible to all users, either by HTTP addressing protocols or by network file access protocols. Check with the Webmaster to find out which protocol to use.

If you will use HTTP access, specify a link by selecting the appropriate option from the **Treat content item as** drop-down list (for form boxes) or **Treat text as** drop-down list (for text boxes) on the HTML tab of the applicable Box Properties dialog box.

For more information, see Chapter 5 of the *Inmagic DB/TextWorks User's Manual*, the “Using HTML in form boxes,” and “Using HTML in text boxes” sections.

If you will use network file access, use the following steps to make *WebPublisher PRO* treat the content of a box as a file reference.

To treat box content as a file reference

1. Add the destination file name in the appropriate designer:
 - Form Designer:
 - a. Choose **Edit>Add>Form Box** to add a form box and open the Form Box Properties dialog box.
 - b. On the Fields subtab of the Contents tab, add a field that contains one or more file names, such as a field called *Documents*.
 - Query Screen Designer or Menu Screen Designer:
 - a. Choose **Edit>Add>Text Box** to add a text box and open the Text Box Properties dialog box.
 - b. On the Text tab, type the full path name for a document. For example, `\\server\vol1\test\myfile.doc`.
2. With the Form/Text Box Properties dialog box still open, select the HTML tab.
3. Select **HTML file reference** from the **Treat content item as** (form box) or **Treat text as** (text box) drop-down list.
4. Click **Apply**.

To avoid conflicts over logical drive mappings, specify the target file using a UNC file name, not a drive letter.

If you want the link text to be different than the file name, select the **Use alternate link text** check box on the HTML tab, which is enabled when you choose **HTML file reference** from the

Treat content item/text as drop-down list. Type the text you want to use as the link in the **Text** box. For example:

File name:

```
\\server\vol1\test\myfile.doc
```

Alternate text:

```
Click here
```

Result in report:

```
<a href="file://server/vol1/test/myfile.doc">Click here</a>
```

If a field contains multiple file names, the alternate text will be the same for each file.

Adding an expand record link to a report

When designing a report form for use on the Web, you can add an expand record link to provide a hypertext link to a single-record display page.

That means that after a search, when records are viewed on the Web as a report (that is, showing multiple records that met the search criteria), a user can click the expand record link to see more detailed information (that is, opening a display page to show a different view of the information).

You can add an expand record link to a report form using a text box or a form box. If you use a form box, you can use the content of the field as the link (for example, the title of a publication). If you use a text box, the link to the expanded view will be the text you type in the text box.

The Display form specified as the Initial Display Form in the query screen determines how the expanded record appears. Be sure to design a Display form that will give users more information about a record. If you do not supply a Display form, the textbase default or Basic form is used instead. If you do not include an expand record link, the ability to expand a record is unavailable.

To add an expand record link with a form box

1. Open a report form in the Form Designer.
2. Select a form box whose content you want to use as the hypertext link.
3. Choose **Tools>Box Properties** to open the Form Box Properties dialog box.
4. On the HTML tab, select a content item from the Contents list. We recommend you select a field that will be present and different in every record, such as the title of a publication.
5. From the **Treat content item as drop-down list**, select **Expand record link**.
6. Click **Apply**, then **Close**.

When this form is viewed on the Web, the content of the *Title* field will appear as a hypertext link to a more detailed view of the record. The following illustration depicts a tabular report form showing title, author, and summary information, with the expand record link applied to the form box containing the *Title* field.

Title	Author	Summary
<u>ABCs of Finance</u>	Ingrid Spy	A beginner's guide to finance.
<u>Financial Trends</u>	John Dough	Analysis of financial trends.
<u>Managing Your Moolah</u>	Mary Jones	A perennial favorite.

To add an expand record link with a text box

1. Open a report form in the Form Designer.
2. Choose **Edit>Add>Text Box** to add a text box and open the Text Box Properties dialog box.
3. On the Text tab, type the text you want to appear as the expand record link in the **Text** box (for example, type **More**).
4. On the HTML tab, from the **Treat text as** drop-down list, select **Expand record link**.
5. Click **Apply**, then **Close**.

When this form is viewed on the Web, the text you type in the text box becomes the expand record link to a more detailed view of the record. If the tabular form in the previous illustration used a text box with the word **More** as the expand record link (instead of the contents of the *Title* field) it might look like this:

Title	Author	Summary	
<u>ABCs of Finance</u>	Ingrid Spy	A beginner's guide to finance.	<u>More</u>
<u>Financial Trends</u>	John Dough	Analysis of financial trends.	<u>More</u>
<u>Managing Your Moolah</u>	Mary Jones	A perennial favorite.	<u>More</u>

Adding a “See Also” search link

When designing a form for use on the Web, you can add a “See Also” search link to treat each entry in a field as a link that will search the textbase.

For example, you can turn a field named *Author* into a “See Also” link that, when clicked, finds all other books by the same author. If this option is used and a book has multiple authors, each author becomes a link to his/her other works.

To add a “See Also” search link to a form box

1. Open a report form or display form in the Form Designer.
2. Select a form box whose content you want to use as the “See Also” search link (for example, the box containing the *Author* field).
3. Choose **Tools>Box Properties** to open the Form Box Properties dialog box.
4. On the HTML tab, select a field from the Contents list. This is the field whose entries will be turned into “See Also” search links.
5. From the **Treat content item as** drop-down list, select **“See Also” search link**.
6. Click **Apply**, then **Close**.

Editing Over the Web

With *WebPublisher PRO*, you can design edit forms in DB/TextWorks, which your users can use to add, edit, and/or delete records over the Web.

You design edit forms for the Web using the Form Designer.

To be able to edit over the Web, the designer must provide at least one of the following types of links on report, display, and/or edit forms. These links are specified using the HTML tab on the Form Box Properties or Text Box Properties dialog boxes (choose **Tools>Box Properties>HTML**).

- **New record links.** This type of link opens an empty edit screen from which a user can add a new record. You can add New record links to report forms and display forms (as well as to query screens).
- **Edit record links.** This type of link opens the current record in an edit screen from which a user can make changes. You can add an Edit record link to report and display forms.
- **Delete record links.** This type of link opens the current record in an edit screen from which a user can delete the record. You can add a Delete record link to report and display forms.
- **Duplicate record link.** This is a special type of link that can only be used on an Edit screen used on the Web. It creates an editable copy of the current record on the screen. When a user saves the record, the copy is saved as a new record. This type of link can only be created by using a New record link on a Web edit form. Typically, a duplicate record link is created with a text box containing text that makes the link's purpose clear (for example, Copy Record).

Creating New, Edit, and Delete Record Links

New record, Edit record, and Delete record links have different purposes, but are created in a similar manner.

To add a New/Edit/Delete record link to a form

1. Open the form in the Form Designer.
2. Add a text box or a form box, depending on what you want to do:
 - If you want to use text you type as the link to an edit or delete screen:
 - a. Choose **Edit>Add>Text Box** to add a text box and open the Text Box Properties dialog box.
 - b. On the Text tab, in the **Text** box, enter the text you want to appear as the link to an edit or delete screen. For example, if you are going to use this text as a New record link, type Add New Record.
 - c. On the HTML tab, from the **Treat text as** drop-down list, select **New record link**, **Edit record link**, or **Delete record link**, as appropriate.
 - d. Click **Apply**, then **Close**.

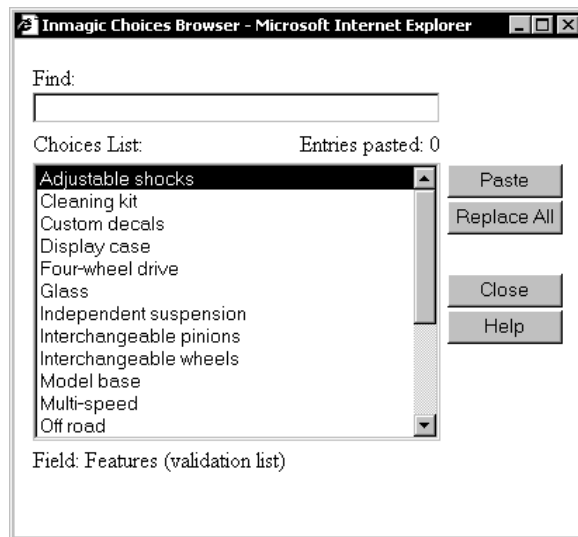
- If you want to use field content or other form box contents (for example, Fixed Text) as the link to an edit or delete screen:
 - a. Choose **Edit>Add>Form Box** to add a form box or select an existing form box and choose **Tools>Box Properties**. The Form Box Properties dialog box opens.
 - b. Select or add the content item whose content you want to use as the link to the edit or delete screen.
 - c. On the HTML tab, from the **Treat content item as** drop-down list, select **New record link**, **Edit record link**, or **Delete record link**, as appropriate.
 - d. Click **Apply**, then **Close**.

Save the form for use on the Web and in the appropriate window (for example, **Report Window**, **Display Window**, **Edit Window**), depending on the type of form you designed. (Note that when the form is used on an edit screen, a New record link will make a copy of the current record in the edit screen, not open an empty edit screen; Edit and Delete record links will not appear.)

Creating Validation List Links

When adding and editing records on the Web, fields with a validation list defined in the textbase structure will have their box labels automatically turned into hypertext links on edit screens (unless you turn off this feature).

Users click the hypertext link to open the Inmagic Choices Browser window, from which they can select items from the validation list. If a field uses a thesaurus as a validation list, the list will appear. Note, however, that non-preferred terms are not included.



For information about using the Inmagic Choices Browser window, users can click the **Help** button on the window to open an HTML help page.

Turning off automatic validation list links

If you do not want all fields with a validation list defined in the textbase structure to have validation list links on Web edit forms, you can add a parameter to the INMAGIC.INI file to make it so. This file resides in your *WebPublisher PRO* installation directory. For example, if your textbase uses record-level security, you may not want to expose all of your record class values to your users.

In the [WebPublisher] section, add the AutoIncludeValidationLinks=0 parameter.

```
[WebPublisher]
AutoIncludeValidationLinks=0
```

If the parameter is set to 0, only fields that you specify in the edit form will display validation list links (if those fields also have a validation list defined in the textbase structure).

If the parameter is set to 1 (the default) all fields with a validation list will display a validation list link on Web edit forms.

Important! You must stop and restart your World Wide Web Publishing Service for *WebPublisher PRO* to recognize changes made to the INMAGIC.INI file.

To turn off automatic validation list links for edit forms that are exported to HTML, add the parameter to the [WebPublisher] section of the INMAGIC.INI file used by DB/TextWorks.

To display validation list links on the Web

1. In the Form Designer, open the Edit form you plan to use to on the Web for your users to be able to add, edit, and/or delete records.
2. Select the form box containing the field for which you want to display a validation list link. This field must have a validation list specified in the textbase structure.
3. Save the form for use in the Edit Window on the Save Form As dialog box (choose **Form Operations>Save Form As**).
4. Choose **Tools>Box Properties** to open the Form Box Properties dialog box.
5. On the HTML tab, from the **Web box treatment** drop-down list, select **Validation**.
6. Click **Apply**, then **Close**.
7. Repeat steps 2–6 for each form box for which you want a validation list link to appear. Note that fields must have a validation list specified in the textbase structure for validation list links to appear on the Web.

Using Default Values on a Web Edit Screen

When you design an Edit form for use on the Web, you can specify that default information automatically appear in a specific field each time the edit screen is used to create new records. For example, if a user will be entering sales orders using a Web edit screen, you can design a custom edit form for each sales representative so that his or her name automatically appears in the *Sales Rep* field for each new record. This ensures that this field always has information in it, and reduces the amount your users have to type.

Note: Default values only appear on Edit forms used to add new records (that is, edit forms accessed by a New record link or an edit form that has been exported to HTML). Default values will not appear on edit forms used to edit or duplicate existing records.

To specify that default field information appear on a Web edit screen

1. In the Form Designer, open the Edit form you plan to use on the Web to add new records.
2. Select the form box that contains the field for which you want a default value inserted. For example, on a sales order edit form, select the form box containing the *Sales Rep* field.
3. Choose **Tools>Box Properties** to open the Form Box Properties dialog box. (Notice that the field in the form box you selected in the previous step appears in the Contents list and is selected in the Fields list.)

Note: To have a default value appear automatically on the screen, the field must be the first item in the form box.

4. On the Fields subtab of the Contents tab, in the **If empty use** box, enter the default information you want to appear in the field when the Web edit screen opens in a browser. For example, type *Marlena Bryce*.
5. Click the **Replace** button.
6. Click **Close**.

When this edit form is used to create new records on the Web, the name you typed in step 4 will appear automatically in the **Sales Rep** box.

Exporting Editing Screens to HTML

If you only want to provide users the ability to add records to your textbase and want them to be able to have direct HTTP access to the edit screen, you can export an edit screen to HTML.

This method is useful when you only want a user to be able to submit information to you (for example, a registration form for an event).

Important! If you use this method, you are allowing your users to only be able to add records from a Web browser—they will not be able to edit or delete records over the Web using this form.

To export an edit form to HTML

1. In the Form Designer, open the form you want to export.
2. Save the form for use in the Edit Window (choose **Form Operations>Save Form As** and select the **Edit Window** check box), if it has not been done already.
3. Choose **Form Operations>Export Editing Form to HTML**.
4. A message appears asking if you want to use Cascading Style Sheets to preserve the formatting you specified in the Form Designer. Click **Yes** to preserve positioning when the edit form is displayed on the Web. Click **No** to have DB/TextWorks use simple HTML to place elements on the edit form (that is, boxes will be left-justified, box labels will appear on top rather than to the left, and so forth).
5. On the Save File As dialog box, do the following:
 - In the **File name** box, type a name for the HTML editing form.
 - Navigate the **Save in** drop-down list to the location in which you want to save the form. The location should be accessible to the HTTP server on which *WebPublisher PRO* is installed.
 - Click **Save**.
6. Click **OK** to dismiss the completion message.

Once your edit form has successfully been exported to HTML, your users can add records to the textbase over the Web. Using a Web browser, they can open the edit form, enter record information in the applicable fields, then click the **Submit Record** button.

Tip! Be sure the textbase for which you have exported an editing form is accessible to *WebPublisher PRO* and that your DBTW-WPD virtual directory and IUSR account have the appropriate access rights. See the *WebPublisher PRO* installation notes for more information about access rights.

Chapter 5: Designing Query Screens for Web Use

When you design a query screen for Web use, use the Query Screen Designer in the same way as you would to design one for the desktop.

However, unlike query screens designed for the desktop, there are several HTML properties you can add to a query screen that is used on the Web. In addition, a Web query screen must be exported to HTML before it can be used on the Web. (For more information, see “Exporting Query Screens to HTML” on page 50.)

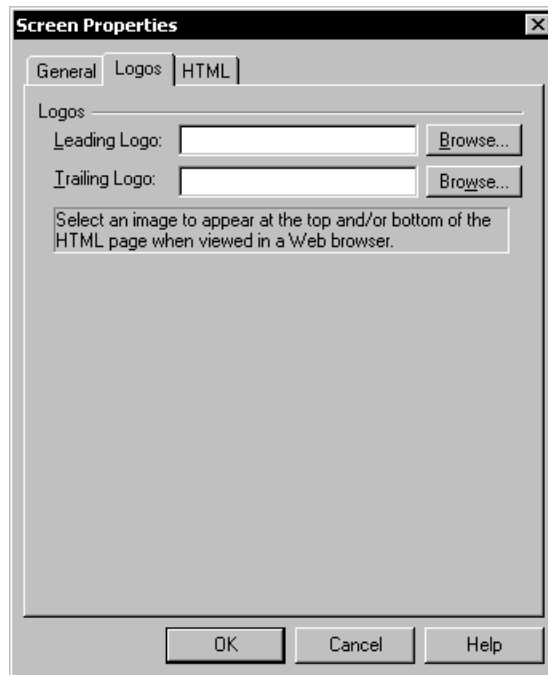
HTML properties can apply not only to query screens as a whole but also to individual boxes within query screens. When you design query screens for the Web, you can select Web-specific properties from the menu locations listed below.

- **Tools>Screen Properties>Logos**
- **Tools>Screen Properties>HTML**
- **Tools>Box Properties>HTML** (query and text boxes)
- **Tools>WebPublisher Multiple Textbase Query**

These properties only affect query screens exported to HTML for use on the Web. They are ignored for query screens used on the desktop.

Adding Logos to a Query Screen

Use the Logos tab on the Screen Properties dialog box (choose **Tools>Screen Properties>Logos**) to add images to the top and/or bottom of a query screen.



Type the image name in the **Leading Logo** and/or **Trailing Logo** box, or click the **Browse** button to navigate to it.

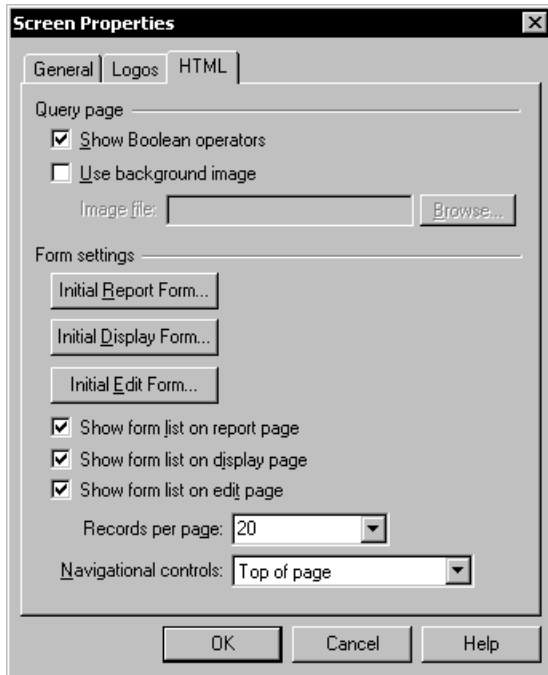
For more information, click the **Help** button on the dialog box, or see the *Inmagic DB/TextWorks User's Manual*.

For information on image file locations, see "Logo and Background Image File Locations" on page 69 of this manual.

Adding HTML Properties to a Query Screen

Use the HTML tab on the Query Screen Properties dialog box (choose **Tools>Screen Properties>HTML**) to add HTML-related properties to a query screen.

You can specify the initial report, display, and edit forms to be used by the Web browser; whether form drop-down lists appear on the Web; how many records to display per page; the location of navigational controls (such as, the **Next/Previous** buttons); and whether Boolean operators and a background images appear.



For details about these settings, see the *Inmagic DB/TextWorks User's Manual*, or click the **Help** button on the dialog box.

Adding HTML Properties to Query and Text Boxes

When designing a query screen, use the HTML tab on the Query Box Properties and Text Box Properties dialog boxes to specify Web-only features.

Query Boxes

To specify HTML features for a query box, use the HTML tab of the Query Box Properties dialog box (select the query box and choose **Tools>Box Properties**).



There are several HTML properties that you can add to a query box:

- **Word Wheels.** When you specify that a box include a Word Wheel, a Word Wheel button appears to the right of the query box when viewed on the Web. Users click the button to open a dialog box that lists all indexed terms or words in the current field. The user can paste terms or words from the list into the query box.
- **Choices drop-down lists.** If a query box has a choices drop-down list, the user can click the down arrow on the drop-down list to see a list of indexed terms. (If there is no Term index, a list of words appears.) The user can select an item from the list to search for that item.
- **Password box.** You can specify that a query box be used as a password box, so users can enter a password on the Web query screen.

Adding Word Wheels to a Query Screen

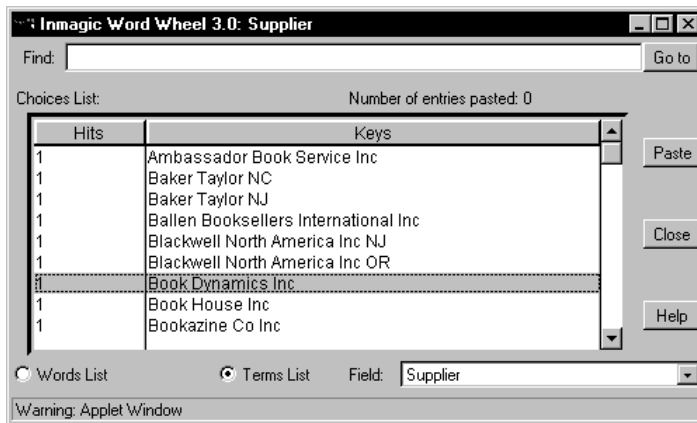
A Word Wheel is a dialog box that shows indexed information from the textbase. When you design a query screen, you can add a Word Wheel button next to a box, so it appears like this in the browser:

Supplier

<input type="text"/>	Word Wheel
----------------------	------------

Users can click the **Word Wheel** button to open a dialog box that shows information from the textbase. *WebPublisher PRO* generates Word Wheels dynamically, so they always show the most recent information. The Innmagic index-streaming technology downloads only the portion of the index that is needed, to minimize load on the server.

The Word Wheel can show a list of words or terms (complete entries). The user selects a word or term from the Keys list, clicks **Paste**, then executes the query.



Users select a term from the list, then click the **Paste** button.

If the query box contains multiple fields, users select the field for which they want to see the Choices List from the Field drop-down list.

To add a Word Wheel button

1. Choose **Search>Design Query Screen** and open a query screen in the Query Screen Designer.
2. Select the query box to which you want to add a Word Wheel.
3. Choose **Tools>Box Properties** to open the Box Properties dialog box.

4. On the HTML tab, select the **Add Word Wheel** option button. By default, the Word Wheel will show a list of words. To show terms first, select the **Show terms by default** check box.

Note: Users can switch between seeing words and terms by selecting the **Words List** and **Terms List** option buttons, as appropriate, on the Word Wheel dialog box.

5. Click **Apply**, then **Close**.
6. Save the query screen, then export it to HTML (see page 50 if you need help).

Important! See the HTML help page supplied for the Word Wheel (WEB_WW.HTM) for browser requirements to run the Word Wheel. If you suspect that some users will have older browsers, you may want to provide access to two versions of the search screen—one with Word Wheels and one without.

Adding a Choices Drop-down List to a Query Screen

A choices drop-down list is a static list of indexed items in a field. The list is generated when you export the query screen to HTML. Drop-down lists can be seen in Web browsers but not on the desktop. Users can select an item from the list instead of typing query criteria. If users do not want to search that field, they can select a blank line from the top of the drop-down list.

Drop-down lists are appropriate for fields that contain short, unchanging lists. In addition, drop-down lists work best with lists whose items are limited to fewer than 50 or so characters each. This is because a drop-down list uses the box width specified in the Query Designer, so longer terms may get cut off. Avoid using drop-down lists for lengthy fields—use a Word Wheel instead.

The screenshot shows a web-based query interface. The title is "Type Search Criteria of Select from a List". There are three main sections, each with a dropdown menu and a text input field. The first section is "Size" with a dropdown showing "AND" and an empty text box. The second section is "Color" with a dropdown showing "AND" and a list of colors (blue, green, red, yellow) displayed below it. The third section is "Notes" with a dropdown showing "AND" and an empty text box. At the bottom, there are two buttons: "Submit Query" and "Reset", and a "Help" icon.

Users can open the drop-down list to see (and search for) actual indexed information.

A drop-down list shows entries from the Term index. If there is no Term index, the drop-down list shows entries from the Word index. If a box searches multiple fields, the drop-down list shows entries only from the first field in the box. (To re-order fields, select a query box, choose **Tools>Box Properties>Fields** and use the **Change Order** buttons.)

To add a choices drop-down list

1. Choose **Search>Design Query Screen** and open a query screen in the Query Screen Designer.
2. Select the query box to which you want to add a choices drop-down list.
3. Choose **Tools>Box Properties** to open the Query Box Properties dialog box.
4. On the HTML tab, select the **Add choices drop-down list** option button. To limit the number of entries that will appear, select the **Specify number of entries** check box, then type the maximum number of entries you will allow. For example, if you type 15, only the first 15 entries will appear in the list.

Note: The default and maximum number of terms that can appear is 200.

5. Click **Apply**, then **Close**.
6. Save the query screen, then export it to HTML (see page 50 if you need help doing this). When you export the query screen to HTML, a drop-down list will be generated as a static list and saved as part of the HTML page. If the textbase changes after the query screen is exported, you should re-export the query screen to update the list, or manually edit the HTML file.

Adding a Password Box to a Query Screen

When you design a query screen for Web use, you can add a password box to the screen so users can enter a password.

Passwords entered into a query screen are carried through to the edit screens used, if your users are editing over the Web.

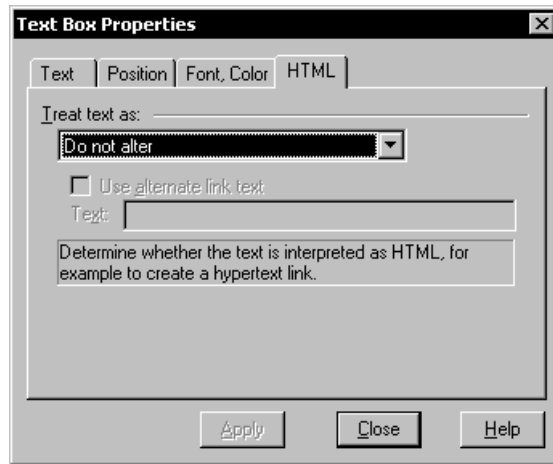
To add a password box to a query screen

1. In the Query Screen Designer, add a query box (choose **Edit>Add>Query Box**) to the query screen you plan to use on the Web.
2. On the Query Box Properties dialog box, select the Labels tab and do the following:
 - a. In the **Label** box, enter the label you want to appear on the box. For example, type `Enter Password`.
 - b. From the **Label position** drop-down list, select an option to specify where the label appears (for example, **Left** or **Top left**.)
3. On the HTML tab, select the **Password** option button.
4. Click **Apply**, then **Close**.

Text Boxes

When designing a query screen for Web use, you can specify that the text in a text box be interpreted in a particular way (for example, as Raw HTML or as a URL).

To do this, use the HTML tab on the Text Box Properties dialog box (choose **Tools>Box Properties**) to select an option from the **Treat text as** drop-down list.



The options in this drop-down list are also applicable to forms (and are selected from the **Treat content item as** drop-down list on the Form Box Properties dialog box).

For an explanation of the options you can apply, see the *Inmagic DB/TextWorks User's Manual*, or click the **Help** button on the dialog box.

Note, however, that for a text box, the option is applied to the text you type in the **Text** box on the Text tab of the Text Box Properties dialog box.

Adding Multiple Textbase Searching Options to a Query Screen

Note: This section does not apply to *WebPublisher PRO Lite* because that product only allows users to search a single textbase.

You can design a query screen so users can search more than one textbase from it. Typically, the textbases being searched are similar in structure, with similar fields.

Searching multiple textbases from a single query screen is helpful when users are searching for information that is kept in different textbases. For example, you may have product sales information in separate textbases for each year. Creating a query screen to search multiple textbases will let users search the data from all years (or whatever years you specify) from a single query screen.

Note: You cannot use the *WebPublisher PRO* editing over the Web feature when searching multiple textbases.

If you want to search more than one textbase with a single query screen, use the options on the WebPublisher Multiple Textbase Query dialog box (choose **Tools>WebPublisher Multiple Textbase Query**).

- **Lead Textbase for WebPublisher Multiple Textbase Query.** Select this check box to specify the textbase you have open as the lead textbase for searching multiple textbases on the Web.
- **Textbases to Search.** Click the **Add** button to specify additional textbases you want to search simultaneously with the lead textbase. The names of the additional textbases you select appear in the Textbases to Search list.
- **Initial Report Form/Initial Display Form.** Click these buttons to specify the report form and/or display form to be used by the Web browser to display records for the textbase selected in the Textbases to Search list.
- **Create Field Name Map.** Click this button to map fields in the lead textbase to fields in the textbase selected in the Textbases to Search list for the purpose of multiple textbase searching.

To set up a *WebPublisher PRO* query screen to search multiple textbases

1. Open the textbase that you want to specify as the lead textbase.
-

Note: The textbase chosen as the lead textbase is the one with the records you want to appear first in reports (for example, the local book catalog before branch library book catalogs). It may also have secondary fields you want to search, or be the textbase with the index you want displayed in a Word Wheel. A Word Wheel can only be used to show the index for the lead textbase.

2. In the Query Screen Designer, open the query screen from which you want to search multiple textbases. You can use an existing *WebPublisher PRO* query screen, or design a new one.

3. Choose **Tools>WebPublisher Multiple Textbase Query** to open the WebPublisher Multiple Textbase Query dialog box.
4. Select the **Lead Textbase for WebPublisher Multiple Textbase Query** check box. This specifies the textbase you have open as the lead textbase.
5. Click **Add** to open the Open Inmagic DB/TextWorks Textbase dialog box and specify the textbase you want to search simultaneously from the query screen. Click **Open**. The textbase will appear in the Textbases to Search list in the WebPublisher Multiple Textbase Query dialog box. Do this for each additional textbase you want to search simultaneously from the query screen.

Important! If you plan to have users search multiple textbases from a query screen, you must make sure the paths of all the textbases to be searched are in the DBTWPub.INI file.

6. Select a textbase in the Textbases to Search list and click the **Create Field Name Map** button to open the Create Field Name Map dialog box.
7. Specify which fields will be searched in each textbase when a user submits a query by selecting a field from the Lead Textbase Fields in this Screen list and then a corresponding field from the Fields Available in this Textbase list.

Note: The fields in the Fields Available in this Textbase list are always from the textbase selected in the Textbases to Search list in the WebPublisher Multiple Textbase Query dialog box.

8. Click the **Create Map Between these Selected Fields** button and the two fields appear in the Mapped Fields list. This means that when a user searches the field shown from the lead textbase, the field shown from the other textbase will also be searched.
9. Repeat steps 7 and 8 for each field you want to map between the lead textbase and the textbase selected in the Textbases to Search list. Click **OK** when done. Notice that a message telling you how many fields are mapped appears next to the **Create Field Name Map** button on the WebPublisher Multiple Textbase Query dialog box.

Note: Unmapped fields will automatically be mapped to the corresponding field in the search textbase. The corresponding field is the field that is in the same place structurally as the unmapped field (for example, if the first field in the lead textbase is unmapped, it will be mapped to the first field in the search textbase).

10. [Optional] To remove fields that have been mapped, select them in the Mapped Fields list, then click the **Delete Entry** button. Use the **Clear All Entries** button to remove all mappings from the Mapped Fields list.
11. Use the **Initial Report Form** and **Initial Display Form** buttons to specify the default forms used when results are displayed from the textbase selected in the Textbases to Search list. Notice that the name of the form appears next to the applicable button.

Note: The initial forms for the lead textbase are specified in the query screen (choose **Tools>Screen Properties>HTML**).

12. Repeat steps 6–11 for each textbase in the Textbases to Search list.
13. Click **OK**.
14. Save the query screen and export it to HTML, as explained on page 50.

Important! When saving a query screen that will search multiple textbases, you must select the **Textbase File (Public)** option button for it to be used on the Web.

How multiple textbase query results are displayed

When a user searches with a query screen designed to search multiple textbases, they use it the same way as one designed to search a single textbase.

Records retrieved from the lead textbase appear first, in the report and display forms specified in the query screen.

Records from subsequent textbases searched appear next, in the order in which those textbases were added in the Textbases to Search list. Results from each of those textbases appear in the report and display forms specified on the WebPublisher Multiple Textbase Query dialog box for that textbase.

Tip! If you want the results of a multiple-textbase search to appear uniform, design identical forms for each of the textbases being searched and specify them as the report and display forms.

Consider using forms that show all fields applicable to your users, as users cannot change forms when using a multiple-textbase query.

Exporting Query Screens to HTML

To use a query screen on the Web, you must export it to HTML.

To export a query screen to HTML

1. In the Query Screen Designer, open the query screen you designed for use on the Web.
2. Choose **Screen Operations>Export Query Screen to HTML**.
3. A message box appears asking if you want to use Cascading Style Sheets (CSS) to preserve formatting. Click **Yes** to preserve formatting (such as, box and label position); click **No** if you want *WebPublisher PRO* to use simple HTML to format the screen (for example, all boxes will appear left-justified).
4. On the Save File As dialog box, name the file when prompted and click **Save**.
5. Click **OK** to dismiss the completion message.

Notes about Exporting Query Screens to HTML

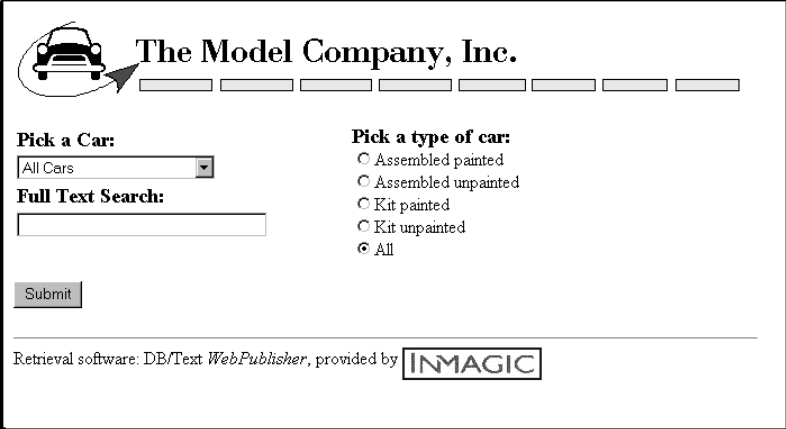
- Buttons labeled **Submit Query** and **Reset**, and a **Help** icon, are added automatically during the export.
- Sets boxes, script input boxes, and script buttons added in the Query Screen Designer are not exported.
- Tab Order specified in the Query Screen Designer is preserved during the export.
- You can put the resulting HTML page anywhere accessible to the HTTP server. Be sure to provide users with a way to access the page, for example by providing a link on your home page that jumps to the HTML search page.
- If you make changes to a query screen in the Query Screen Designer after it has been exported to HTML, you must re-export it for your changes to be seen on the Web.

Editing HTML Query Screens

You can use standard HTML editing tools to enhance your search screens. After exporting a query screen to HTML in DB/TextWorks, open the file in the HTML editor of your choice and add the features you want, such as check boxes and option buttons. You probably should keep related buttons, inputs, and applets near each other on the page so as not to confuse the user. As with any HTML form, be sure to test it thoroughly before putting it up on the Web.

Important! If you re-export an edited query screen to HTML using DB/TextWorks, any changes made outside of DB/TextWorks will be lost.

The following illustration shows a search screen called CARSXTRA.HTM, which is included with *WebPublisher PRO* in the SAMPLE subdirectory. You can open this page in your Web browser and view the document source. With a little practice, you can achieve similar effects for your own search screens.



The screenshot shows a web form for 'The Model Company, Inc.' with a car icon. It includes a 'Pick a Car:' dropdown menu with 'All Cars' selected, a 'Full Text Search:' text input field, and a 'Submit' button. To the right, under 'Pick a type of car:', there are radio buttons for 'Assembled painted', 'Assembled unpainted', 'Kit painted', 'Kit unpainted', and 'All' (which is selected). At the bottom, it says 'Retrieval software: DB/Text WebPublisher, provided by INMAGIC' with the INMAGIC logo.

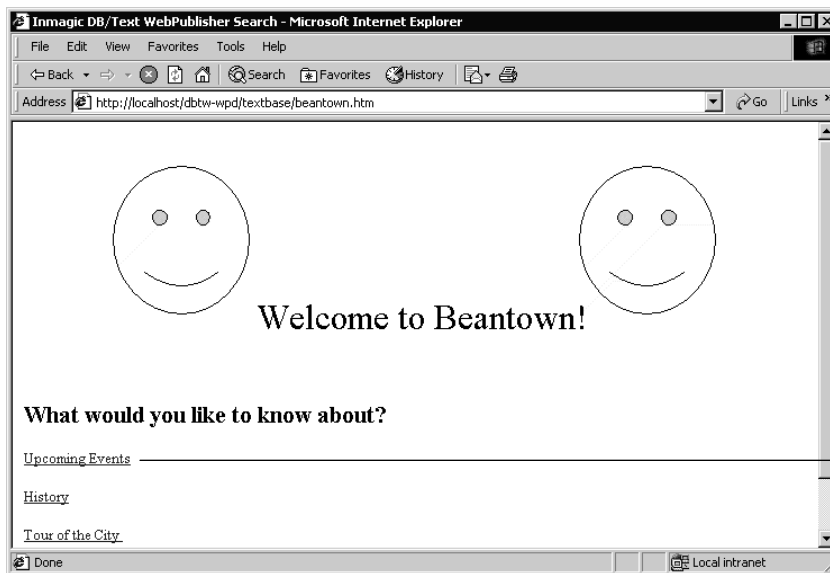
Chapter 6: Designing Menu Screens for Web Use

You design menu screens for use with *WebPublisher PRO* the same way you design menu screens for DB/TextWorks—using the Menu Screen Designer.

However, menu screens used on the Web are quite a bit different from those used on the desktop. Each menu screen for the Web contains at least one textbox with an “initial action,” which is a predefined search.

A Web menu screen is essentially a list of predefined queries that appear as hypertext links. Users click the links to submit a query to *WebPublisher PRO*—without having to enter search criteria in a query screen.

For example, the following Web menu screen includes three predefined queries for commonly requested information.



Clicking a link runs a predefined query.

Menu screens are especially useful when you do not want users to have to specify query criteria, and when many users are likely to want to perform the same searches.

Tip! It is especially useful to use saved queries including @DATE as the initial action. For example, you could have an initial action (query) called *Upcoming Events*. The query criteria for this action could be @DATE : @DATE+14. This query would return all event records from the date of the query through the next two weeks.

Before you begin designing a menu screen for the Web, be sure to create one or more sets that you will associate with items on the menu screen.

To do this, start DB/TextWorks, open a textbase, and perform a query. After retrieving records, choose **Sets>Save Set**. When prompted, name the set and save it in the **Textbase File (Public)**. The search criteria will automatically be saved as a saved query. Repeat this step for each search that you include on the menu screen.

When the menu page is displayed in a browser, the searches look like regular links. When a user clicks a link, *WebPublisher PRO* performs a query and displays records in the browser. From the user's point of view, a regular hypertext jump has occurred. It is not immediately evident to the user that a textbase has been queried.

Important! When the link is clicked, *WebPublisher PRO* re-executes the query. *WebPublisher PRO* does not simply load the set. The set will include any omitted records and any new or changed records that now match the query criteria.

Once designed in DB/TextWorks, a menu screen must be exported to HTML before it can be used on the Web.

There are several HTML properties you can add to a menu screen that is used on the Web.

HTML properties can apply not only to menu screens as a whole, but also to individual text boxes within menu screens. When you design menu screens for the Web, you can select Web-specific properties from the menu locations listed below.

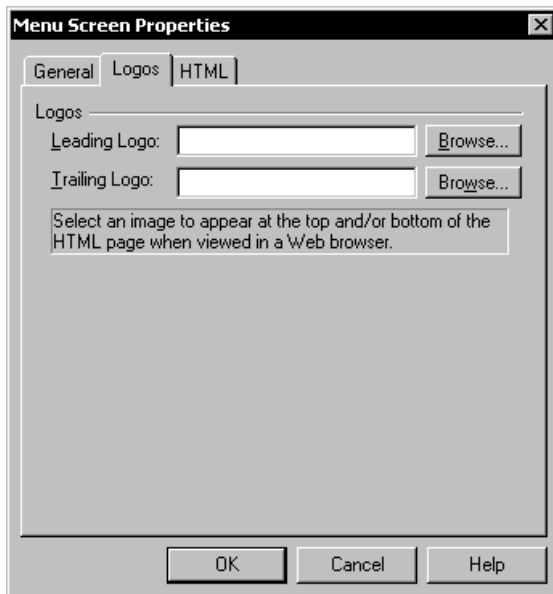
- **Tools>Screen Properties>Logos**
- **Tools>Screen Properties>HTML**
- **Tools>Box Properties>HTML** (for text boxes only)

These properties only affect menu screens exported to HTML for use on the Web. They are ignored for menu screens used on the desktop.

For details about designing menu screens in general (that is, adding menu screen boxes, background color, and so forth), see the *Inmagic DB/TextWorks User's Manual*.

Adding Logos to a Menu Screen

Use the Logos tab on the Menu Screen Properties dialog box (choose **Tools>Screen Properties>Logos**) to add images to the top and/or bottom of a menu screen.



Type the image name in the **Leading Logo** and/or **Trailing Logo** box, or click the **Browse** button to navigate to it.

For more information, click the **Help** button on the dialog box, or see the *Inmagic DB/TextWorks User's Manual*.

For information on image file locations, see “Logo and Background Image File Locations” on page 69 of this manual.

Adding HTML Properties to a Menu Screen

Use the HTML tab on the Menu Screen Properties dialog box (choose **Tools>Screen Properties>HTML**) to add HTML-related properties to a menu screen.

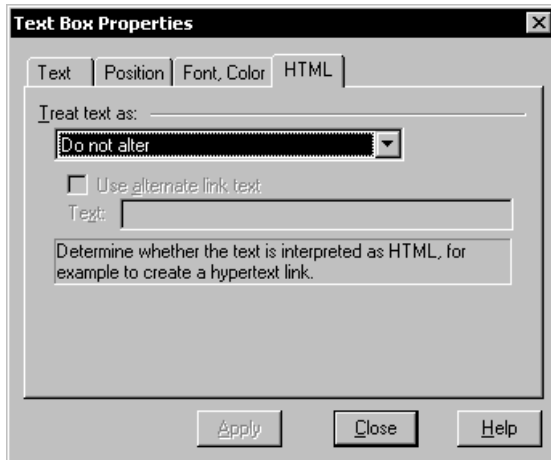
You can specify a background image for the menu screen, whether form drop-down lists appear on the Web when the results of predefined queries are displayed, how many records to display per page, and the location of navigational controls (such as, the **Next/Previous** buttons).



For details about these settings, see the *Inmagic DB/TextWorks User's Manual*, or click the **Help** button on the dialog box.

Using HTML Properties in Text Boxes on a Menu Screen

Use the HTML tab on the Text Box Properties dialog box (choose **Tools>Box Properties>HTML**) to specify how the text you enter in a text box on a menu screen will be interpreted.



Select an option from the **Treat text as** drop-down list. These options are the same as for query screens and are detailed in the *Inmagic DB/TextWorks User's Manual*.

Exporting Menu Screens to HTML

To use a menu screen on the Web, you must export it to HTML.

Before exporting, you should first specify default forms for each textbase box (choose **Tools>Box Properties>Initial Elements**) and whether form drop-down lists should appear on report, display, and/or edit pages (choose **Tools>Screen Properties>HTML**).

To export a menu screen to HTML

1. Close any textbase that may be open, then open the menu screen you want to export in the Menu Screen Designer (choose **Menu Screens>Design**).
2. Choose **Menu Operations>Export Menu Screen to HTML**.
3. Name the file and specify a location in which to save it, then click **OK**. You can save the HTML page anywhere accessible to the HTTP server. (If you prefer, you can save it locally, then copy it to the server at a later time.)

Notes about exporting menu screens to HTML

- The only items that are exported are text boxes, picture boxes, and textbase boxes whose initial action is a Saved Query (choose **Tools>Box Properties>Initial Action**). The export process ignores any textbase box that does not have Saved Query specified as the initial action. Icons are also ignored.
- Text in a textbase box does not retain the font, font style, font size, and color attributes specified in DB/TextWorks. When exported to HTML, the software automatically formats text in textbase boxes to appear as a standard hypertext link.

Editing HTML Menu Screens

You can use standard HTML editing tools to enhance your menu screens. After exporting a menu screen to HTML in DB/TextWorks, open the file in the HTML editor of your choice and add the features you want. As with any HTML form, be sure to test it thoroughly before putting it up on the Web.

Note: If you re-export an edited menu screen to HTML using DB/TextWorks, any changes made outside of DB/TextWorks will be lost.

Chapter 7: Using Images on the Web

When publishing a textbase on the Internet or an intranet, you can display images in a record, as well as use fixed images (for example, your organization's logo) on Web query screens, menu screens, and forms. There are two types of images that can be used on the Web.

- **Fixed images.** These images are used in forms, query screens, and menu screens.
- **Record images.** These images are used in forms only.

All images, except for those being used in picture boxes, should be sized appropriately. For example, you may want to reduce the dimensions of some images used as logos. Very large images may work better as link targets.

Displaying Fixed Images

You can use fixed images in forms, query screens, and menu screens. They can appear not only in the body of the form or screen, but also at the top, bottom, and/or as the background of the form and/or screen. When displaying fixed images, keep in mind the purpose of the image and where you want to place it, as these considerations determine the type of fixed image you use.

There are several types of fixed images:

- **Picture box image.** Use a picture box (choose **Edit>Add>Picture Box** in any of the designers) to add an image in the body of a report or screen. Use a picture box if you want the ability to specify the image size using the Picture Box Properties dialog box, or if you want to place the image in the body of the page.
- **Logo.** Use a logo when you want to place an image file at the top and/or bottom of a form, query screen, or menu screen. Logos are placed above and below the controls added automatically by *WebPublisher PRO* (such as, the **Next Record** and **Previous Record** buttons). An image placed at the top of a form or screen is a leading logo; an image placed at the bottom is a trailing logo. The actual size of the image is used. To add a logo, open the appropriate designer and choose the Tools menu, the appropriate Properties command (for example, Form Properties), and select the Logos tab. Enter the name of the image file name (for example, COMPANY.JPG) for the leading and/or trailing logo, as appropriate.
- **Background image.** Use a background image when you want to specify an image file as the page background for a form, query screen, or menu screen. To specify a background image, open the appropriate designer, choose the Tools menu and then the appropriate Properties command (for example, Screen Properties), select the HTML tab, select the **Use background image** check box, then choose an image file name.

Displaying Record Images

You can use record images in forms. When displaying record images, keep in mind that some fields contain multiple images, so it is important to choose the method that will display the number of images you want, in the correct format. Record images appear in the body of the record.

There are several types of record images:

- **Picture box image.** Use a picture box when you only want to show the first image in a field, in a box by itself, or when you want the ability to specify the size of the image using the Picture Box Properties dialog box. Using a picture box for record images requires that the user have HTTP access to the image files. When specifying the name and location of the image you want to display, you cannot use the image filename shortcut (for example, image.001 (3)).
- **Inline image.** Use an inline image when you want to display all images in a field that contains multiple images, display images in the same box with other content (such as text), and/or display an image not contained in an Image field. Inline images can be called by a file reference or an HTTP reference. The actual size of the image is used.

Note: When inline images are used, *WebPublisher PRO* uses simple HTML, not CSS (Cascading Style Sheets).

- **Image link.** Use an image link when you want to display a link to the image, rather than the image itself. This is useful when the image is unusually large (for example, file size and/or dimensions). Images can be called by a file reference or an HTTP reference. The image will display at its actual size.

Textbase Record Images

A textbase may include fields that hold the names of image files. For example, a field called *Schematics* might contain the entry DIAGRAM1.JPG.

Most Web browsers support only JPEG and GIF image formats. DB/TextWorks does not support GIF. If you reference GIF files in a textbase, you will not be able to view those images with DB/TextWorks unless you launch them in their native application. This is an issue only when sharing textbases between desktop users and Web users.

You can access textbase record image files on an intranet the same way as you would on the Internet. However, you also have the option of accessing the images by means of a network file addressing protocol. The advantage of this approach is that both DB/TextWorks and *WebPublisher PRO* can access the images in a shared location, by using the same file access protocol. (Compare this to Internet access, where *WebPublisher PRO* uses HTTP and DB/TextWorks uses file access, so sharing image files is not always practical.)

To use file references for textbase record images

1. With a form open in the Form Designer, choose **Edit>Add>Form Box** to add a form box and open the Form Box Properties dialog box.
2. On the Fields subtab of the Contents tab, select a field that contains image file names.

Note: To ensure that everyone has access to the images, the UNC file name should be specified (for example, \\server\image\poe.jpg).

3. On the HTML tab, select **Inline image** or **Image link** from the **Treat content item as** drop-down list. Selecting **Inline image** displays the image as part of the form; **Image link** creates a link to the image on the form.

4. Select the **Use file:// reference for image** check box. This tells *WebPublisher PRO* to do the following, depending on what you selected in the previous step.
 - For Inline images, the images are referred to using a file URL. Note that if you use Inline image on the Web, CSS is turned off by default. If this is not what you want, use a picture box instead. For more information about specifying CSS settings, see the DB/TextWorks online help.
 - For Image links, the entry in the field is converted to a file URL.

Note: The “conversion” is done in the form. The textbase records are not modified.

5. Click **Apply**, then **Close**.

If you selected **Inline image** in the steps above, the entry:

```
\\server\image\poe.jpg
```

will be treated as:

```

```

If you selected **Image link**, it will be treated as:

```
<a href="file://///server/image/poe.jpg">file://///server/image/poe.jpg</a>
```

Destination

Link Text

Notice that the destination and link text show the file name. You can specify different link text, as explained in the next section.

To specify alternate link text for Image links

Use the following steps to specify alternate link text for Image links. Note that this implies that you have already selected **Image link** from the **Treat content item as** drop-down list on the Contents tab.

1. In the Form Designer, select a form box and choose **Tools>Box Properties** to open the Form Box Properties dialog box.
2. On the Contents tab, select the field containing image file names from the Contents list.
3. Select the **Use alternate link text** check box, then specify the text to use as the link in the **Text** box. For example, type `Show Image` to generate this link:

```
<a href="file://///server/vol/images/poe.jpg">Show Image</a>
```

4. Click **Apply**, then **Close**.

Note: If there are multiple entries in the field, the alternate link text will be the same for all the entries. For example, if you use `Click here` as the alternate link text and there are three entries in the field, the alternate link text for each entry will be `Click here`.

Chapter 8: For the Webmaster

Information for Webmasters is consolidated in this section. Textbase designers are also strongly encouraged to read this section, because they will need to coordinate file locations and other issues with the Webmaster.

Before you can use *WebPublisher PRO*, you must set up a virtual directory called DBTW-WPD on the HTTP server, as explained in the *WebPublisher PRO* installation notes.

Publishing a *WebPublisher PRO* Textbase

A *WebPublisher PRO* textbase is designed using *WebPublisher PRO* software running under Microsoft Windows. The information in that textbase can be made available to local or remote Internet or intranet users running browsers, through the use of *WebPublisher PRO*.

Here is a list of the tasks involved in publishing a textbase on the Web:

1. Install *WebPublisher PRO* on a server that meets the system requirements detailed in the *WebPublisher PRO* installation notes.
2. Copy the textbase and its associated files to a directory that can be accessed by *WebPublisher PRO* using a file path.
3. Users point their browsers at a static HTML search page created using DB/TextWorks. This page submits the query to *WebPublisher PRO*, which returns the results as a dynamically formatted HTML document to the user's browser for display.

Advanced users: If you have experience with XML and XSL, you can build your own Web interface using third-party tools (such as, Microsoft FrontPage) and have it submit the query to *WebPublisher PRO*.

The two primary tasks involved in publishing a textbase are to store the files in appropriate locations and ensure that appropriate permissions are set for those locations. For details about the permissions needed, see the *WebPublisher PRO* installation notes.

During installation, *WebPublisher PRO* creates a directory structure with default locations for the external files associated with a textbase. You can copy external files to the default directories, or to other directories on the same or a different file server, then use DBTWPub.INI to tell *WebPublisher PRO* where to look.

There are two kinds of “addresses” that *WebPublisher PRO* uses when opening files. Sometimes it opens files using a file path. For example:

C:\PROGRAM FILES\INMAGIC\WEBPUB\TEXTBASE\MYDIR

At other times, *WebPublisher PRO* constructs a URL to pass to the browser, in which case it uses an HTTP-style address. For example:

/DBTW-WPD/HELP/WEB_BEGIN.HTM

The relationship between the two kinds of addresses is controlled by the file locations specified in DBTW.PUB.INI and the mapping settings (also called virtual directories) used by your HTTP server software. To understand the relationship, see the *WebPublisher PRO* installation notes.

Publishing a “Live” Textbase

If you plan to maintain your textbase over the Web (that is, you or your users will be adding, editing, and/or deleting records from a browser), you must provide Web access to the “live” textbase.

Note: If you do not intend to modify records in any way over the Web, you can maintain the textbase (for example, add records) in another (non-server) location from your desktop and copy it up to the server for Web access after changes are made.

Publishing a “live” textbase not only enables the textbase to be modified, but ensures that the most current information possible is being retrieved (so DB/TextWorks and *WebPublisher PRO* are both accessing the same textbase). When publishing a “live” textbase, there are special considerations:

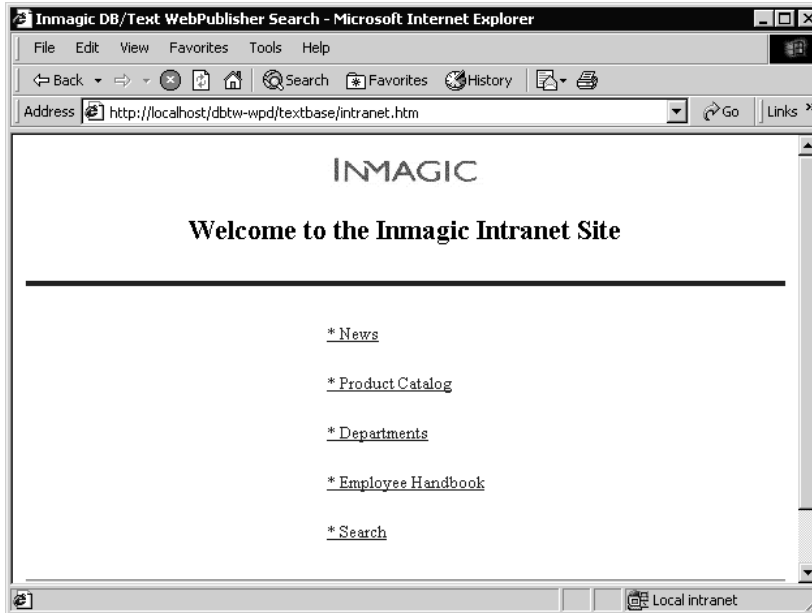
- *WebPublisher PRO* must have file access to the textbase where it resides on the server. (Note that this applies to all textbases, regardless of whether they are “live.”)
- Textbase record image files should be located in the same directory as the textbase, so both DB/TextWorks and *WebPublisher PRO* can access them. If they are not in the same directory, the full path name should be included in the Image field (for example, \\SERVER\VOL2\IMAGES\MOM.JPG).

Important! If the image will be accessed using HTTP, *WebPublisher PRO* will strip off the path and use the location specified in DBTW.PUB.INI. The path in the record must be correct for the aspect ratio to be preserved in picture boxes on forms. For more information about preserving the aspect ratio, see Chapter 5 of the *Inmagic DB/TextWorks User’s Manual*, the “Using picture boxes on the Web” section.

- Internet applications can display only GIF or JPEG images in a browser without a special plug-in. DB/TextWorks can display JPEG and many other image formats, but not GIF.

Intranets

You can use *WebPublisher PRO* on an intranet as well as on the Internet. An intranet is a local or wide-area network that operates in a manner similar to the Internet, using TCP/IP, browsers, and HTML pages. By publishing textbases on an intranet, you can make information widely available within your organization across a variety of platforms. For example, you can publish company policies and procedures and provide shared access to image files.



Publishing textbases on an intranet is identical to publishing on the Internet, except that you can launch applications and access images using file:// references in addition to, or instead of, HTTP.

Important! Be sure to check with the Webmaster before using network file access, to find out which protocol is preferred.

File Locations

The following sections detail the locations of various files.

Textbase File Locations

A textbase consists of multiple files with the same name but different file extensions. For example, a textbase called *Sales* consists of SALES.ACF, SALES.BTX, SALES.DBR, SALES.DBO, SALES.DBS, SALES.IXL, SALES.OCC, SALES.SDO, SALES.TBA, and optionally, SALES.ACS (if the textbase uses record-level security), SALES.LOG, SALES.INI, and SALES.HLP files. Note that if you are editing over the Web, the textbase .INI file (for example, SALES.INI) is required, as it contains XML match field information.

If the textbase designer indicates that any textbases are linked, it is recommended that you place the linked textbases in the same directory. If they are in the same directory, omit the path from the link. If they are in different directories, you must specify the path using a UNC file name.

The DBTWPUb.INI file controls where *WebPublisher PRO* looks for textbases. When you installed *WebPublisher PRO*, you had the opportunity to specify one or more textbase search paths, which were written to the [WebPublisher Defaults] section of DBTWPUb.INI. You can also optionally indicate a specific location for each textbase by modifying the [WebPublisher Textbase Paths] section in DBTWPUb.INI manually. For example:

```
[WebPublisher Defaults]
Default-Textbase-Paths=c:\webpub\textbase\,c:\data,\\server2\tbs

[WebPublisher Textbase Paths]
cars=c:\webpub\sample\
catalog=c:\data\library\
```

If you installed the sample textbase (named *Cars*), this section is already present. Do not add the section again, but add the location to the existing one. (If you add another section, it will be ignored.)

If you have only one textbase, or if you have multiple textbases of limited size without images, you may want to put them all in the same directory (for example, the TEXTBASE subdirectory). If you have several textbases with images that you want to keep separated, or you want to locate multiple textbases on different file servers, you will probably want to edit the DBTWPUb.INI file to specify file locations.

What happens when a user submits a query

When a user submits a query, *WebPublisher PRO* looks for the textbase and, once found, ensures its location is retained for future reference. The following steps provide details as to what happens once a query is submitted.

1. *WebPublisher PRO* checks the [WebPublisher Textbase Paths] section of DBTWPUb.INI for the textbase name and looks in the specified location. This occurs regardless of whether the user is submitting a query from an HTML query screen or is submitting XML.
 2. If the textbase name does not appear in that section or the textbase does not exist in the specified location, the software looks in the directories specified in the Default-Textbase-Paths parameter of the [WebPublisher Defaults] section. This occurs regardless of whether the user is submitting a query from an HTML query screen or is submitting XML.
 3. If it does not find it, the software acts differently depending on how the user sent the query:
 - If the query was submitted from an HTML query screen, *WebPublisher PRO* displays a message with a **Search** button. Clicking the button initiates a recursive subdirectory search on the directories listed in the Default-Textbase-Paths parameter of the [WebPublisher Defaults] section.
-
- Note:** If the user is using a single HTML query screen to search multiple textbases, *WebPublisher PRO* will only do a recursive subdirectory search for the lead textbase. For the search textbases, if the textbase is not found in step 1 or 2, a message notifying the user that the textbase(s) cannot be found appears on the report page.
-
- If the query was submitted in XML, a message is returned in the XML output notifying the application that the textbase cannot be found.
4. If *WebPublisher PRO* finds the textbase in steps 2 or 3, it writes the location to the [WebPublisher Textbase Paths] section, so the search will not be necessary in the future.

Important! The Internet user account (IUSR/IWAM) used by *WebPublisher PRO* must have read access to the directories in which textbases reside. For the textbase search feature to work, this account must also have write access to DBTWPUb.INI and read access to all directories specified in the Default-Textbase-Paths parameter of the [WebPublisher Defaults] section.

HTML Search and Edit Screen Locations

Search, menu, and edit screens are HTML pages created with DB/TextWorks, which users will use to submit queries (search or menu screens) or add records (edit screens) to a textbase. You can place these screens anywhere accessible to the HTTP server. They do not have to go in any particular directory. Be sure to provide users with a way to access the pages (for example, provide links on your home page that jump to the HTML search pages).

If you have upgraded from *WebPublisher PRO* version 1.0 to version 7.0, edit screens you exported to HTML in version 1.0 will continue to work. However, because version 7.0 provides better formatting on the Web, you may want to export each edit form to HTML again. If you do that, you can delete the copy of DBTWP-EDIT.ASP in the same directory as the exported HTML edit form. (Note that in *WebPublisher PRO* version 1.0, a copy of this .ASP file was required to be located in each directory containing an exported edit form. With *WebPublisher PRO* version 7.0, this is not necessary. Only one copy of this file is needed—an updated version [now named IWPP-EDIT.ASP] is installed in the ASP subdirectory of the *WebPublisher PRO* installation directory.)

Image File Locations for Forms

Use DBTWPUB.INI to specify the location of:

- **Record images.** Image file names specified in textbase records and included as picture boxes, inline images, or image links in a form.
- **Fixed images.** Logo and background images and picture boxes containing static images used in forms.

You can specify an image location for each textbase or put images in a default location. *WebPublisher PRO* removes any path information specified for the image in the textbase record (unless you use an HTML file:// reference), then constructs a URL by prepending the text you specify.

Note: If you use a picture box on a Web form with CSS, the file path is used to determine the size of the image in order to preserve the aspect ratio or prevent text from overlapping the image.

Use the [WebPublisher Image Locations] section of DBTWPUB.INI to specify the text *WebPublisher PRO* should use to construct the URL for record images used in specific textbases. In the example below, vacation is the name of a textbase.

Use the [WebPublisher Logo Locations] section to construct URLs for fixed images (for example, logos and backgrounds) used with specific textbases. In the example, vacation is the name of a textbase.

In the [WebPublisher Defaults] section, use the Default-Logo-Location= and Default-Image-Location= lines to specify the text used to construct image URLs if the textbase name does not appear in either of the other sections.

Example:

```
[WebPublisher Defaults]
Default-Textbase-Paths=\\server2\tbs\,c:\webpub\textbase\
Default-Logo-Location=/mylogos/
Default-Image-Location=/myimages/
```

```
[WebPublisher Image Locations]
vacation=/vacimage/
```

```
[WebPublisher Logo Locations]
vacation=/mylogos/vac/
```

Note: A logo or image location that starts with a forward slash (for example, /myimage) is relative to the HTTP server root. A location without a leading "http://host" or "/" is relative to the location of the query or menu screen that submits the query.

For more information about DBTW PUB.INI, see the DB/TextWorks online help.

Logo and Background Image File Locations

By default, *WebPublisher PRO* expects to find logo and background images for forms in the location specified in DBTW PUB.INI (see above). It expects to find logo and background images for query and menu screens in /DBTW-WPD/IMAGES (the HTTP equivalent to C:\PROGRAM FILES\INMAGIC\WEBPUB\IMAGES). To display the images, the software constructs a URL to send to the browser. For example:

```
/dbtw-wpd/images/corpllogo.gif
```

The textbase designer can specify alternate locations using the Logos or HTML tab (choose **Tools>Form Properties>Logos** or **Tools>Form Properties>HTML**) in the Form Designer, Query Screen Designer, or Menu Screen Designer. To override the default location, the image file name must include a forward slash (/). Some examples:

```
http://www.inmagic.com/logos/corpllogo.gif
/backgrnd/simple.gif
pictures/me.gif
```

A logo or image location that starts with a forward slash is relative to the server root. A location without a leading "http://host" or "/" is relative to the location of the query or menu screen that passed the query to *WebPublisher PRO*.

Note: This functionality does not apply to textbase image names stored in records. The software strips all path information from image names stored in records and uses the Default-Image-Location= and [WebPublisher Image Locations] settings in DBTW PUB.INI to specify their location.

Initialization Files

WebPublisher PRO reads settings from three initialization files. All three files should reside in the directory in which *WebPublisher PRO* is installed.

- **DBTWPUB.INI.** Textbase and image directory settings and other options specific to *WebPublisher PRO*. This file is required for *WebPublisher PRO*.
- **INMAGIC.INI.** User options shared with DB/TextWorks. This file is optional for *WebPublisher PRO*.
- **DBTEXT.INI.** Settings (primarily date formatting/indexing settings) shared with DB/TextWorks. This file is optional for *WebPublisher PRO*.

The Internet user account should have Read-Write access to DBTWPUB.INI and Read access to INMAGIC.INI and DBTEXT.INI. Be sure that the Internet user account has Read access to any image or textbase directories you specify. If you plan to allow users to modify records over the Web, the textbase directory must have Full Control access.

You can override many of the parameters set in the DBTWPUB.INI file by adding parameters to the exported HTML query screen or including parameters in any XML submitted to the application.

For more information about these .INI files, see the DB/TextWorks online help.

Testing your Textbases: A Checklist

Before you make your textbases widely available on the Internet or an intranet, test them from a remote computer running a browser (not from the server itself) to be sure that everything works the way you intended. If your end users are likely to be using a variety of browsers, test with a representative sample of them. The best way to test is to run through a sample search, retrieval, and display. If your application supports editing the textbase, you should also test this feature. Use the following list as a checklist of the major areas to test.

- Have you handed off all the necessary files to the Webmaster and coordinated issues about initialization files and textbase and image locations? For more information, see “File Locations,” on page 66 and “Initialization Files” on page 70.
- Do all your search screens appear as you intended? Try several queries to see if you retrieve the intended records.
- Do Word Wheels appear correctly on the screen? Do they work as expected? Try pasting a few entries into various query boxes.
- Do all images appear correctly? Check logos, backgrounds, and textbase record images on forms, query screens and menu screens.
- Do all links go to the correct destinations? Verify that there is a link on your Web site that takes you to the search screen. Check all links on query screens, menu screens, and reports.
- Does every report include an expand record link, if appropriate? Is the link text available for every record?
- Do all your reports look the way you intended? Try several different searches, to obtain different record sets. Select each report form and display form in the browser. Different record sets, such as records that lack information in a field, may affect appearance.
- If your Web query screen was designed to search multiple textbases, try a search that should retrieve records in all of the textbases. Try using each query box and click on any “See Also” search links to verify that you have mapped all the necessary fields.
- If you changed message or button text by creating and connecting a MYMSG.INI file, verify that your modifications appear when and where you expect them. For more information about creating a MYMSG.INI file, see the DB/TextWorks online help.
- If you have specified that expanded records open in a separate browser window and/or you specified that a **New Search** button appears on screens, verify that they work as you intended. Note that these features are specified by adding parameters to the DBTWPub.INI file.
- If your textbase has Link fields, verify that you can search for and display information from secondary textbases.

- If your textbase has passwords, verify that the query screen (or edit screen) includes a password box. If the textbase has a Silent password, verify that it hides the fields or records you expect it to hide.
- If you included New record, Edit record, and/or Delete record links on your forms and screens, verify that they open the appropriate edit screen and that you can modify records as you intended.
- If you included any validation list links on edit pages, test them to be sure they open the Inmagic Choices Browser window.
- If you made changes to the supplied help pages (WEB_*.HTM), click the **Help** button on the query screen, in the Word Wheel dialog box, on and Inmagic Choices Browser window to be sure you access the changed help pages. If you renamed the pages, test the inter-page jumps. For example, WEB_BEGIN.HTM includes links to WEB_WW.HTM and WEB_MSG.HTM.
- Consider doing a usability test to be sure that your search screens and forms are clear and intuitive. Try having an uninitiated user go to your home page and see if that person can figure out what to do: how to jump to a search screen, which fields to query, what to search for, and what syntax to use.

Chapter 9: Tutorial

You can practice publishing textbases on the Web by performing the following tutorial. The exercises are based on a fictitious organization called The Model Company, which sells high-end model cars. The company uses a textbase called *Cars*, which it publishes on the Internet.

The *Cars* textbase is included with *WebPublisher PRO* and can be installed by running Setup. The *Cars* textbase and associated files are installed in the SAMPLE subdirectory.

This tutorial assumes you are using a “live” textbase, which means DB/TextWorks and *WebPublisher PRO* are accessing the same copy of the textbase.

If this is not possible in your configuration, copy the sample textbase (*CARS.**) to a machine that DB/TextWorks can access. After each exercise in which you use DB/TextWorks to make changes, copy the textbase files or HTML pages back to the HTTP server so *WebPublisher PRO* can access them. However, if you go this route, you will be able to edit records over the Web and use validation list links, but when you copy the DB/TextWorks textbase over, you will lose the changes you have made to the records using *WebPublisher PRO*.

Exercise #1: Searching on the Web

In this first exercise, you will go to a Web page that was created with DB/TextWorks and do a search. The records that you find will be displayed in your browser.

Searching for Records and Displaying a Report

1. Point your Web browser to `http://hostname/dbtw-wpd/sample/carsqs.htm`, where **hostname** is your domain name or IP address. The search screen opens. This page was created with DB/TextWorks. Each box represents a field that you can search.
2. To find all models that come as kits (not assembled) and cost less than \$200, type **Kit** in the **Model Type** box and **< 200** in the **Price** box.


The screenshot shows a Microsoft Internet Explorer window titled "Search Cars - Microsoft Internet Explorer". The address bar displays "http://localhost/dbtw-wpd/sample/carsqs.htm". The main content area features a logo of a car with a speech bubble and the text "The Model Company, Inc." followed by a row of seven empty input boxes. Below this, there are three main search fields: "Model Type: Assembled or Kit?" with the value "Kit" entered, "Name of car: Porsche, Supra, Mustang, Ford, Mercedes, Ferrari, etc." with an empty box, and "Price: Type a number or use comparisons (e.g., >200) or ranges (e.g., 100 : 200)" with the value "<200" entered. At the bottom, there are two buttons: "Submit Query" and "Reset", and a "Help" icon. A status bar at the bottom right indicates "Local intranet".

Search Cars - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print W Go

Address http://localhost/dbtw-wpd/sample/carsqs.htm

 The Model Company, Inc.

Model Type: Assembled or Kit?

Kit

Name of car: Porsche, Supra, Mustang, Ford, Mercedes, Ferrari, etc.


Price: Type a number or use comparisons (e.g., >200) or ranges (e.g., 100 : 200)

<200

The Model Company designs and sells model car kits. To do a search, type words or phrases in the boxes. Use an asterisk to broaden a search to include all word endings (kit*). Use an ampersand (&) to indicate that both words must be present (porsche & supra). Use a slash (/) to indicate that either word can be present (porsche / supra). Click "Submit Query" to start the search.

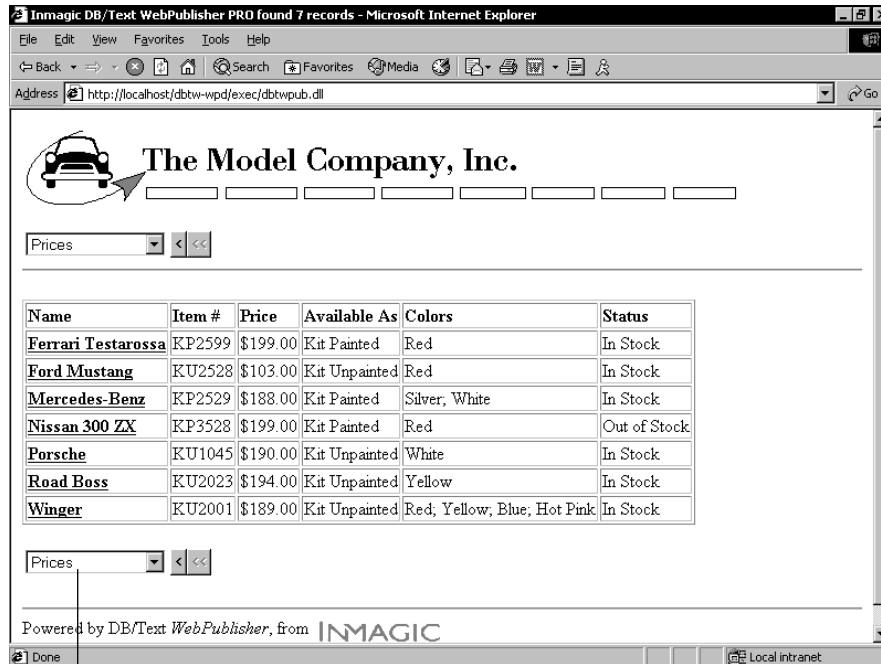
[Use search screen with Word Wheels](#)

[Use search screen with picklists](#)

Submit Query Reset 

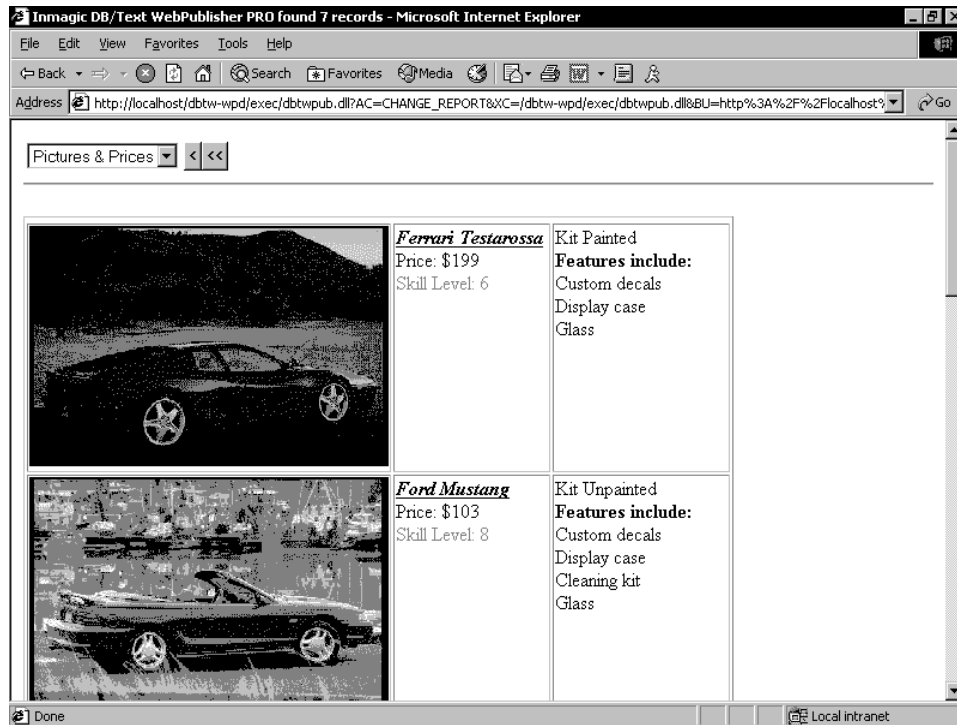
Local intranet

- Click the **Submit Query** button. *WebPublisher PRO* searches the textbase, finds the records that were requested, and displays them in the browser as a formatted HTML page.



Use this drop-down list to change forms.

4. To see a different view of the records, select **Pictures & Prices** from the drop-down list at the top or bottom of the page. *WebPublisher PRO* reformats the information using a form stored in the textbase.

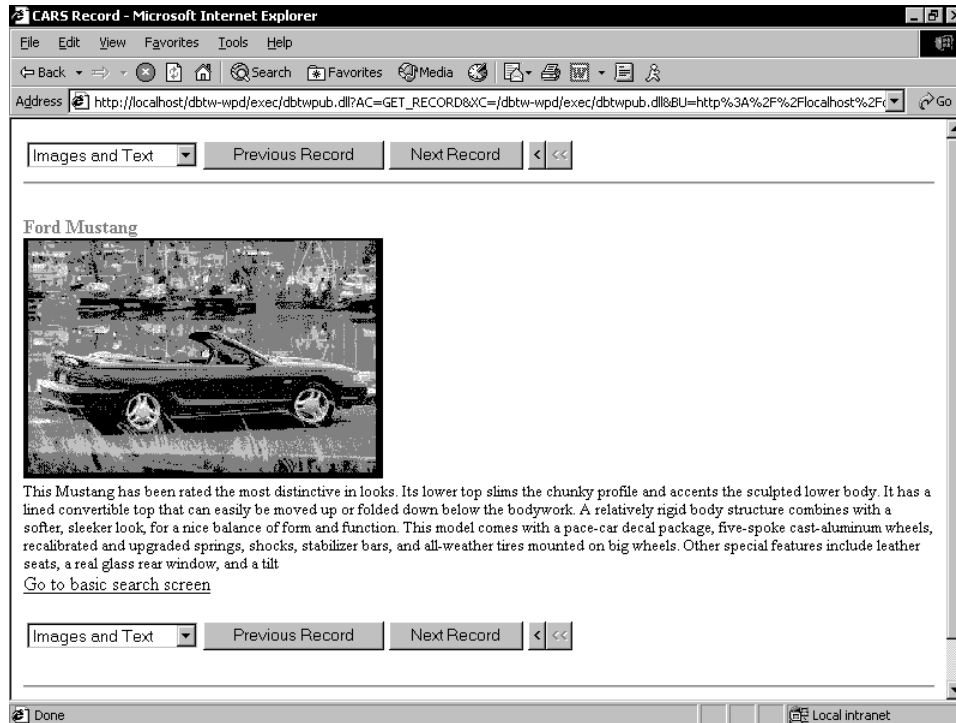


Displaying a Single Record

The reports you have seen have been summaries of the records found. You can easily “drill down” to get detailed information about individual records.

To view individual records

1. Scroll to any record in the report and click the link text (the name of the car) to see detailed information about that record. When you click the link text, *WebPublisher PRO* displays that single record using the display form specified in the query screen.




2. Click the **Next Record** and **Previous Record** buttons to see other records, one at a time.
3. Select a different form from the drop-down list at the top of the page to change how the record appears. This formatting is done dynamically. *WebPublisher PRO* gets the form stored in the textbase, applies it, and sends the formatted page back to the browser.


Exercise #2: Using the Buildware

DB/TextWorks is the buildware—the software that you use to create the textbases, forms, and search screens that you publish on the Web. In the previous exercise, you searched a textbase and displayed the results in your browser. Now you will see how to create search screens (query screens) and forms (including an edit form) for Web use. You will edit a records in the *Cars* textbase from your browser, as well as learn how to batch modify records on the desktop.

Getting Help

If you have any questions while you are using DB/TextWorks, use the DB/TextWorks online help.

For help on a particular window, click the Help on this Window  button.

For help on a particular toolbar button or menu command, click the Context Help button  then click the toolbar button in question, or open a menu and click on a command.

Designing Forms

Forms determine the appearance of information retrieved from a textbase.

Forms can show or hide fields, add text and punctuation, control layout and colors, and include variables and calculations appropriate for complex computations. You can also use an edit form on the Web to add, edit, and/or delete records.

To design a Web edit form

In the following steps, you will design a Web edit form, which will be used later to edit a record in the *Cars* textbase from a Web browser.

1. If you have not already done so, start DB/TextWorks.
2. Choose **File>Open** and select the *Cars* textbase, which is located by default in the *WebPublisher PRO* SAMPLE subdirectory (for example, C:\PROGRAM FILES\INMAGIC\WEBPUB\SAMPLE\CARS).
3. Choose **Display>Design Form** to open the Open Form dialog box.
4. From the Start With list, select **Basic Form**, then click **OK**. The Basic form, which contains one box for each field in the textbase, opens in the Form Designer.
5. Use the Form Designer to design the edit form to suit your needs. Change the box labels, add a title for the edit form, add background color, and apply any other design settings you want.

6. Choose **Form Operations>Save Form** to open the Save Form As dialog box and do the following:
 - In the **Name** box, enter a name for the form. For this exercise, type `Edit Screen`.
 - [Optional] In the **Description** box, enter description of the form (for example, type `Web editing form for Cars textbase`).
 - In the Save In group, select the **Textbase File (Public)** option button.
 - In the Use For group, select the **Edit Window** and **Web** check boxes and clear any others that may be selected.
 - Click **OK**.

To edit an existing form

In this exercise, you will add an Edit record link to the Prices form that you originally saw on the Web. This link will open an edit screen so you can modify records.

1. In the Form Designer, choose **Form Operations>Open Form** to open the Open Form dialog box.
2. From the Currently Saved list, select the existing form called **Prices**, then click **OK**.
3. Change the sort order by choosing **Report Options>Compulsory Sort** to open the Specify Compulsory Sort Order dialog box and do the following:
 - a. Remove **Name** from the Sort Fields list by clicking the left arrow button.
 - b. Add **Club Price** to the Sort Fields list by selecting it in the Available Fields list and clicking the right arrow button.
 - c. Click **OK**.
4. Add an Edit record link to the form:
 - a. Select the **Status** box, then choose **Edit>Add>Text Box**. The Text Box Properties dialog box opens.
 - b. On the Text tab, type `Edit Record` in the **Text** box.
 - c. On the HTML tab, select **Edit record link** from the **Treat text as** drop-down list.
 - d. Click **Apply**, then **Close**.
5. Choose **Form Operations>Save Form** to save the form.
6. Choose **Form Operations>Close Form Designer** to close the Form Designer.


Note: If you are not sharing a “live” textbase, copy the textbase files (*CARS.**) from the local machine to the **SAMPLE** subdirectory on the server now.

Designing Query Screens

To enable Web users to search a textbase, supply one or more query screens in HTML format. A query screen contains boxes in which users type search criteria. Each box searches one or more fields.

To design a query screen

In the following steps, you will add Word Wheel and Boolean buttons to a query screen, export it to HTML, and then do a search using the new query screen. You will also view records using the Prices form you modified and the new Edit Screen form.

1. Make sure the *Cars* textbase is still open from the last exercise.
2. Choose **Search>Design Query Screen** to open the Open Query Screen dialog box.
3. Select **Catalog QS-HTML** from the Currently Saved list. This is an existing query screen saved in the textbase. Click **OK**.
4. Add a query box by choosing **Edit>Add>Query Box**, or by clicking the Add Query Box button  on the Query Screen Designer toolbar. The Query Box Properties dialog box opens.
5. On the Fields tab, select **Features** from the Fields list and click the **Add** button.
6. On the HTML tab, select the **Add Word Wheel** option button to add a Word Wheel to the screen.
7. Click **Apply**, then **Close**. The Word Wheel button will not appear until you view your page in a Web browser.
8. Choose **Tools>Screen Properties** to open the Screen Properties dialog box.
9. On the HTML tab, select the **Show Boolean operators** check box to add a Boolean drop-down list (**AND**, **OR**, **NOT**) to all query boxes on the page.
10. Click **OK**. The Boolean drop-down lists will not appear until you view the page in a Web browser.
11. Choose **Screen Operations>Export Query Screen to HTML** to export the query screen to HTML.
12. A message appears asking if you want to use Cascading Style Sheets to format the query screen. Click **Yes**.
13. When prompted, name the file *CARSQS2.HTM* and save it in the *SAMPLE* subdirectory of the *WebPublisher PRO* installation directory. Click **OK** on the confirmation message.

Note: If you cannot save it directly onto your Web site, save it anywhere; then copy the HTML file to the server later.

14. Choose **Screen Operations>Close Query Screen Designer** and answer **No** when asked if you want to save the query screen.

Note: If you want to save the query screen under a different name, select **Cancel** when asked if you want to save the query screen, then choose **Screen Operations>Save Query Screen As** and choose a new name for it.

15. Point your Web browser to CARSQS2.HTM. For example, point to `http://hostname/dbtw-wpd/sample/carsqs2.htm`, where **hostname** is your domain name or IP address.

Search CARS - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail News RSS

Address `http://localhost/dbtw-wpd/sample/carsqs2.htm` Go

The Model Company, Inc.

Model Type: Assembled or Kit?

AND

Features

AND Word Wheel

Name of car: Porsche, Supra, Mustang, Ford, Mercedes, Ferrari, etc.

AND

Price: Type a number or use comparisons (e.g., >200) or ranges (e.g., 100 : 200)

AND

The Model Company designs and sells model car kits. To do a search, type words or phrases in the boxes. Use an asterisk to broaden a search to include all word endings (kit*). Use an ampersand (&) to indicate that both words must be present (porsche & supra). Use a slash (/) to indicate that either word can be present (porsche / supra). Click "Submit Query" to start the search.

[Use search screen with Word Wheels](#)

[Use search screen with picklists](#)

Submit Query Reset Help

Done Local intranet

16. View the changes you made to the query screen:
- A box labeled *Features* so users can search by feature.
 - A Boolean drop-down list on each box so users can choose from AND, OR, and NOT to combine search criteria among multiple fields.
 - A Word Wheel button, so users can look at indexed information from the *Features* field in the textbase.

17. Submit a query and view the changes you made to the Prices form.
 - Records are sorted by price instead of name.
 - A new column containing an Edit record link.
18. Edit a record by clicking the **Edit Record** hypertext link in the last column of its row. The record opens in the initial edit form specified in the query screen. (This form was predefined in the *Cars* textbase for you. For more information about how to specify initial forms, see “Adding HTML Properties to a Query Screen” on page 41.)
19. Select **Edit Screen** from the form drop-down list on the page to change the edit form to the one you designed earlier in this tutorial.
20. Edit the record. For example, click any box label that is a hypertext link to open the Inmagic Choices Browser window. You can paste an entry from the field’s validation list.
21. Click the **Submit Record** button to save the changes, then click **OK** in the confirmation window.
22. Click the Rewind button (<<) to return to the query screen, then search for the record you modified to see the changes.

Batch Modifying Records on the Desktop

Information on a Web site is subject to change. To keep information current, DB/TextWorks offers many powerful editing features, including the ability to batch modify records.

To batch modify records on the desktop

In the following steps, you will use the batch modify feature on the desktop to make the same change to several records at once.

1. If you have not already done so, start DB/TextWorks and open the *Cars* textbase.
2. In the **Name of car** box, type `porsche / winger / supra` and press **Enter**. This searches the *Name* field for Porsche OR Winger OR Supra.
3. On the Select Search Results Window dialog box, select **Report window**, if it is not already selected. Click **OK**, and the records matching the criteria display.
4. Choose **Records>Batch Modify** to open the Batch Modify Records in Set dialog box.
5. Select **Features** from the Field to Modify list, **Append Entry After** from the Operation choices, and **Last Entry** from the Affects choices. These settings tell the software to modify the information in the *Features* field by appending the new entry (which you will specify in the next step) after the last entry in the field.
6. Type `Glass windshield` in the **New Entry** box. Click **OK**.
7. On the Content Validation Mismatch dialog box, click **Accept & Update List**.

8. Click **Yes** in response to the confirmation message, then **OK** on the completion message.

Note: If you are not sharing a “live” textbase, close the textbase; then copy the textbase files (*CARS.**) from the local machine to the *SAMPLE* subdirectory on the server.

9. View the change on the Web by pointing your browser to either *CARSQS.HTM* or *CARSQS2.HTM*.
10. Type *porsche / winger / supra* in the **Name of car** box and click **Submit Query**. The matching records display.
11. Select **Pictures & Prices** from the form drop-down list and notice that the new feature, *Glass windshield*, is listed.

Now that you have a basic understanding of how to publish textbases on the Web, try creating some textbases of your own, following the instructions provided in the *Inmagic DB/TextWorks User's Manual*.

Appendix: Troubleshooting

This appendix can help you solve some common problems. For a complete list of *WebPublisher PRO* error messages, see the WEB_MSG.HTM. file.

Message: DB/Text WebPublisher could not find textbase '<name>' on the server.

There are several possibilities. The textbase might not be located in any of the directory trees specified in the Default-Textbase-Paths= parameter in DBTWPub.INI. You can open DBTWPub.INI in a text editor and add the textbase location to the [WebPublisher Textbase Paths] section.

If the textbase resides on a different drive than the HTTP server, use the UNC directory name (for example, \\SERVER\VOL2\DIRECTORY), rather than the drive letter (for example, C:\DIRECTORY) in the [WebPublisher Textbase Paths] section and/or the Default-Textbase-Paths= parameter in DBTWPub.INI.

The Internet user account (for example, IUSR_SERVERNAME) submitting the query must have Read access to the directory where the textbase resides. (Note that if you plan to allow users to modify records over the Web, the textbase directory must have Full Control access.)

Long file names with spaces can cause problems with some HTTP servers. Use short file names (eight characters) for compatibility.

Message: The textbase '<tname>' has not yet been located on the server.

The textbase location has not been specified in the [WebPublisher Textbase Paths] section of the DBTWPub.INI file or *WebPublisher PRO* cannot find the textbase in the specified location. Click the **Search** button on the page to have *WebPublisher PRO* do a recursive subdirectory search for the textbase in the locations specified in the Default-Textbase-Paths= parameter in DBTWPub.INI.

Message: DB/Text WebPublisher found textbase '<name>' - you may re-execute your query (press Back twice).

WebPublisher PRO successfully found the textbase and wrote its location to the [WebPublisher Textbase Paths] section of the DBTWPub.INI file. If you press the **Back** button twice and perform the query again and get the message “The textbase ‘<tname>’ has not yet been located on the server,” the Internet user account does not have Write access to DBTWPub.INI. You need to either provide Write access or edit DBTWPub.INI and add the textbase location.

Message: Your current query has expired. Perform the search again.

This error indicates that the slot occupied by a query set has been re-used by someone else's query. Too much time may have passed since the query was first performed, or too many users may be searching the textbase simultaneously. To increase the maximum number of query sets that can be stored, open DBTW.PUB.INI, which is located in the *WebPublisher PRO* installation directory. Edit the WebSetMax parameter in the [WebPublisher] section. The default value is 2000, which is usually sufficient. If it is already at 2000 and you are still getting this error, increase the value.

```
[WebPublisher]
WebSetMax=2000
```

Symptom: Multiple JavaScript errors when loading a query or menu screen in a Web browser.

Make sure that the /DBTW-WPD virtual directory has been mapped (aliased) to the *WebPublisher PRO* installation directory and has the necessary access (Read, Execute, and Scripts).

Symptom: I found records, but I get an error when I try to change the form, display more records, or click link text on the report.

Verify that *WebPublisher PRO* has Full access to the query set files (<textbase>.WPD and <textbase>.WPO) and the subdirectory where they reside (QSETS).

Symptom: When I submit a query, I do not find the intended records.

If you are doing a Boolean or range search (&, /, !, :), the problem may be related to the SpacedRelOps= setting. Interpretation of search symbols is controlled by the SpacedRelOps= setting in the [Inmagic DB/TextWorks] section of the INMAGIC.INI file, located in the *WebPublisher PRO* installation directory. If SpacedRelOps=0, spaces are not required around search symbols. They are always treated as Boolean operators unless embedded within a quoted phrase. If SpacedRelOps=1, spaces are required around search symbols. They are treated as search symbols only if surrounded by spaces. The advantage of SpacedRelOps=1 is that users can search for dates such as 12/31/98 or URLs such as <http://www.inmagic.com> without having to use surrounding quotes.

Other possibilities are that the field is protected by a password, the query syntax is wrong, or Boolean operators are being misunderstood. The textbase designer can help users by adding instructions or examples to the query screen, supplying drop-down lists for fields with limited variations, omitting Boolean buttons if the target audience is likely to be confused, and/or supplying both simple and advanced search screens.

**Symptom: The Word Wheel buttons do not appear in my browser.
Nothing happens when I click a Word Wheel button in my browser.**

The Word Wheel requires Microsoft Internet Explorer version 3.0 or later, or Netscape Navigator version 3.x/4.x. For recent versions of Internet Explorer, you must install and use the Microsoft Virtual Machine. Recent versions of Sun Java are not backwards-compatible and do not function with Word Wheels, and recent versions of Netscape Navigator use this incompatible version of Sun Java.

Symptom: The Word Wheel dialog box is empty.

The first field searched by the box may be empty. Try selecting a different field from the **Field** drop-down list on the Word Wheel dialog box.

Other possibilities are that the textbase may be missing, inaccessible, or damaged; that your Web browser does not support Java and needs to be upgraded to a newer version that does; that Java is disabled in your browser settings and you need to refer to your browser's online help to learn how to enable it; or that you are using Netscape and your textbase name contains spaces.

To verify that the problem is with the Word Wheel itself (and not with the search screen or textbase), do a simple search in the same query box. If the search does not work, then the problem is not specifically with the Word Wheel.

Symptom: Some forms do not appear in the Web browser drop-down list.

Did you choose the correct properties when saving forms? For each form that you will use on the Web, choose **Save Form As** in the Form Designer, then save the form in the **Textbase File (Public)**. You must also select the **Web** check box. Also, select either the **Report Window** (for multiple-record display) or **Display Window** (for single-record display) or **Edit Window** (for editing over the Web) check boxes.

Symptom: Records displayed after a search look "awful" in my browser.

If a Web browser does not support tables, then tabular forms used to display search results will not appear properly. To display tables properly, use version 3.0 or later of Microsoft Internet Explorer or Netscape Navigator (version 4.0 or later preferred). If you cannot upgrade your browser, use DB/TextWorks to create non-tabular report forms.

Symptom: Records displayed after a search do not look like they did in DB/TextWorks.

The form may contain Raw HTML or inline images, or you have `WebCSStOpt=0` in `DBTWPub.INI`.

Symptom: Records displayed after a search are printing on top of each other (overprinting).

The form may be using a font size greater than 10 point. Change the font size to 10 point or set `WebCSStOpt=0` in `DBTWPub.INI`. Another cause could be that the form contains Raw HTML or inline images and you have `WebCSStOpt=2` in `DBTWPub.INI`. Adjust the form to better position the box containing the Raw HTML.

Glossary

Access Control field

A field type that provides record-level security by letting you restrict access to classes of records. The record class is specified by the content of this field. *See also* record-level security.

alternate link text

Text that appears on a Web page, acting as a link to an image, URL, file, and so forth.

API

Application Programming Interface. *See also* ISAPI.

Back (<) button

A button automatically added to screens and forms used on the Web that returns you to the previous screen.

background image

Image file specified as the page background for a form, query screen, or menu screen used on the Web.

Basic form

Simple form, generated by the software, containing a box for each field in the primary textbase. Fields appear in the order in which they are defined in the textbase structure. The Basic form is often useful as a starting point in the Form Designer.

Basic Query Screen

Simple search screen, generated by the software, containing a box for each indexed field in the primary textbase. The Basic query screen is often useful as a starting point in the Query Screen Designer.

batch modification

Process by which multiple records are changed in the same way, by the addition, deletion, or modification of a field or field entry, or substitution of text.

Boolean commands

Commands (AND, OR, NOT) used to combine search expressions in order to produce a desired result.

Boolean drop-down lists

Drop-down lists associated with searchable boxes on a Web query screen, allowing the Boolean command associated with that box (AND, OR, NOT) to be changed by the person performing the query.

Boolean operators

Symbols (& / !) used to combine search terms: & represents AND, / represents OR, ! represents NOT.

borders

Lines drawn around the four sides of a box. When designing a form or query screen, you can choose whether or not to show the borders for any specified box when the form or screen is used.

boundaries

Dashed lines that you can choose to see while designing a form, query screen, or menu screen indicating the location and dimensions of each box. It is especially useful to turn on boundaries (check **Boundaries** on the **View** menu) if the boxes on the form do not have visible borders. Boundaries are a design tool only. They do not appear in the saved form or screen. *See also* entry boundary.

browse

To peruse a list of terms that you can paste while searching or editing records.

browser

A program used to view material prepared for the Web. Browsers can interpret URLs and HTML, and can understand several Internet protocols, such as HTTP, FTP, and Gopher. Examples of browsers are Microsoft Internet Explorer and Netscape Navigator.

Cascading Style Sheet

A Web page (for example, WEBSTYLE.CSS) that you create to define styles (for example, fonts, colors, spacing) for your Web documents (for example, HELP.HTM). Having a cascading style sheet (CSS) gives the Web page creator more control over the appearance of a Web page (rather than to the Web browser). Netscape and Internet Explorer version 4.0 or later usually support Cascading Style Sheets. When exporting screens and forms to HTML in DB/TextWorks, you are asked whether you want to use CSS to preserve the formatting you specified in the designer.

CGI

Common Gateway Interface. A specification for how an HTTP server communicates with external programs. A CGI executable file provides the connection between browser software and an application. Most HTTP servers support CGI.

choices drop-down list

An option that you can add to a field on a query screen to show a list of indexed terms when viewed on the Web. When the HTML page is viewed in a Web browser, users can open the drop-down list and select an item for which to search.

compulsory form sort

Sort description defined for a form, specifying the only way in which records can be sorted when that form is used.

content validation

Validation rules governing what can be placed in a field entry, including mask validation, minimum and maximum values, or a list of valid terms.

criteria

See search criteria.

CSS

See Cascading Style Sheet.

DB/Text *WebPublisher PRO*

A Web-based application that enables you to publish textbases on the Internet or an intranet, so Web users can search and edit them. *WebPublisher PRO* accepts queries from standard Web browsers, such as Microsoft Internet Explorer, and accepts XML input. The software returns results in dynamically generated HTML reports or XML. *WebPublisher PRO* is used together with DB/TextWorks, which is the “buildware” for creating searchable and editable textbases.

DB/TextWorks

A textbase system—a type of database software that enables you to build networked and standalone textbases to manage text, numbers, dates, and electronic images. DB/TextWorks combines traditional database power, including the ability to manipulate data and perform arithmetic calculations, with the ability to handle large amounts of text. DB/TextWorks is the database software that you use to build the textbases (text databases) that you can use with *WebPublisher PRO* to publish on the Internet or an intranet.

Delete record link

A link that opens the current record in an edit screen from which the user can delete the record. *Compare* Duplicate record link, Edit record link, New record link.

Display form

A form used to display one record at a time. *Compare* Report form, Edit form.

drop-down list

See choices drop-down list.

Duplicate record link

A link that creates an editable copy of the current record on the screen. When saved, the copy is saved as a new record. This type of link can only be created by using a New record link on a Web edit form. *Compare* Delete record link, Edit record link, New record link.

Edit form

A form used on the Web for modifying a record. *Compare* Display form, Report form.

Edit record link

A link that opens the current record in an edit screen from which the user can make changes. *Compare* Delete record link, Duplicate record link, New record link.

editable box

A box on an Edit form in which you can add or change information. The box can contain only one field, which cannot be protected by the current password.

elements

See textbase elements.

entry boundary

The boundary where one entry ends and another begins. The entry boundary is indicated by an entry separator.

entry separator

- (1) Text specified in a form to separate the entries in a field.
- (2) Pipe character (|) used to separate field entries on a Web edit form.

See also field entry delimiter.

Expand record link

A record link that provides a hypertext link to a single-record display form. *See also* expanded display.

expanded display

Display of a single record at a time in a Web browser, when a user clicks on a hypertext link in a report form. *See also* expand record link.

extension

Part of a file name that is commonly used to signal the file's purpose, such as log files (.LOG) and exported forms (.XPF).

field

Part of a record containing a specific category of information, such as an author's name or a publication date.

Field Access password

Password with an associated set of permissions, granting or denying read or read-write access to particular fields or records, or to the textbase itself (including textbase elements).

field entry

An item of information in a field. A record can contain more than one entry in a field, such as a *Subject* field having multiple subject terms.

field entry delimiter

Character used on a Web edit form to indicate where one entry ends and another begins. The field entry delimiter for *WebPublisher PRO* is the pipe character (|). *See also* entry separator.

field name

Text identifier for a field in a textbase. A name can be up to 20 characters and can contain letters, digits, spaces, hyphens, and underbars.

field type

Property of a field that governs how its contents are treated. A Date field, for example, is expected to contain dates, and will file dates chronologically.

file URL

An addressing scheme that does not specify a protocol (such as HTTP) for accessing files. File URLs are specific to a local system, such as an intranet. Example:
`file://server1/docs/myfile.htm`. *See also* URL.

fixed text

Text added to the contents of a box in a form definition. Fixed text always appears when the form is used.

form

A layout for presentation of some or all of the information in a record.

form box

A box on a form containing field information, variables, or other information.

FTP

File Transfer Protocol used for sending data from one system to another on TCP/IP networks, including the Internet.

<head> section

The top-most part of an HTML page/report, often including <title>, <script>, and <style> elements.

hidden field

Field to which all access is denied by the current password.

HTML

Hypertext Markup Language. HTML is a collection of tags used to mark blocks of text and assign attributes to them, to make them appear a certain way when viewed in a Web browser.

HTML edit page

An edit screen created by exporting an edit form to HTML. This method enables users to directly access the edit page via HTTP to add records. Users cannot modify or delete records using an HTML edit page.

HTML search page

See query screen.

HTTP

Hypertext Transfer Protocol, which is used for distributing hypertext documents on the Internet. HTTP is layered on top of TCP/IP.

hypertext link

The connection between one hypertext document and another. When a user clicks a hypertext link, a jump is made to another HTML page.

image

A file containing a picture, diagram, or scanned document that can be referenced in a textbase record and displayed or printed.

Image link

An image linked to a form through a hypertext link. *See also* hypertext link.

index streaming

Technology that downloads only the portion of information needed, to minimize load on the server. The Word Wheel uses index-streaming technology.

INI file

Initialization file, which a software application uses to store various settings.

initial action

The action that occurs when a textbase is opened using a particular menu screen option. Menu screens exported to HTML ignore all textbase boxes except those with an initial action of Saved Query.

initial elements

The forms, query screen, and/or record skeleton that are loaded when a textbase is opened using a particular menu screen option. For menu screens, the initial elements control the default forms used for the Web.

initial report/display/edit form

The form that is first used in the Web browser. The initial report form is applied when the user retrieves records. The initial display form is applied when the user expands a record by clicking a hypertext link. The initial edit form is applied when a user clicks a New record, Edit record, or Delete record link to open an edit screen so they can add, edit, or delete a record.

inline image

An image that is displayed as part of a form, instead of as a separate page.

Inmagic Choices Browser

A window used on the Web to paste items from a validation list into an edit screen. The Inmagic Choices Browser is accessed by clicking a validation list link on an edit screen.

InmagicADVANTAGE

The software maintenance program of Inmagic, Inc. through which new features are made available to customers throughout the year as they are implemented, rather than as a once-a-year upgrade. New product releases are downloaded directly from the Inmagic Web site (www.inmagic.com). For more information, contact Inmagic, Inc. or your authorized Inmagic dealer.

Internet

A collection of computer networks connecting users around the world.

intranet

A LAN (Local Area Network) or WAN (Wide Area Network) that is used in a manner similar to the Internet, using TCP/IP, Web browsers, HTML pages, and so forth.

ISAPI

Internet Server Application Program Interface specification. A high-performance alternative to Common Gateway Interface (CGI) executable files. Internet Information Services, the free Web server software provided by Microsoft, supports the ISAPI protocol. *See also* API.

Java

A platform-independent programming language that is typically used on the World Wide Web. Java and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries.

JavaScript (JScript)

A scripting language created by Netscape that can be embedded into HTML documents for use on the Web. It can also be used in form scripts in DB/TextWorks. It is unrelated to Java. *Compare* VBScript.

jump

See hypertext link.

lead textbase

A textbase that serves as a template when designing a query screen for use with DB/Text *WebPublisher PRO* to search multiple textbases. The lead textbase contains the query screen definition and all of the pertinent information about the other textbases to be searched.

leading logo

An image at the top of a page. *See also* trailing logo.

link

See hypertext link.

Link field

A field in a primary textbase used to identify and link to a record in a secondary textbase.

linked textbases

Textbases that are associated by means of a Link field in the primary textbase and an associated field in the secondary textbase. This relational-like linking enables you to access record information from the secondary textbase while working in the primary textbase.

live textbase

A textbase that is in one location where both DB/TextWorks and *WebPublisher PRO* can share it. Compare this to the alternative of maintaining the textbase locally and copying it up to the HTTP server whenever you make changes. Note that we strongly recommend using a live textbase if you plan to let users edit over the Web (for example, to add or modify records).

Master password

A textbase-level password that must be defined before any other passwords are created. The Master password grants full access to all operations.

Match field

See XML match field.

menu

A list from which you can select an activity to perform.

menu screen

A list of items, each of which initiates a predefined query. A predefined query appears on the HTML page as a regular hypertext link. Clicking on the text initiates the query.

Menu Screen Designer

The tool used to create menu screens.

message box

A message that informs you about error conditions, requests confirmation, displays warnings, and so forth.

minimum height

The fewest number of lines that will be displayed in a form box, regardless of the amount of information available for display. Unless the minimum number of lines is set to zero, the box will appear, even if it contains a field absent in a particular record or hidden by the current password.

multiple-textbase query

A query screen designed so users can search more than one textbase from it. Typically, the textbases being searched are similar in structure, with similar fields.

nested Boolean

The use of two or more Boolean commands to construct a search request, possibly with parentheses to control the order of operation. *See also* Boolean commands.

New record link

This type of link opens an empty edit screen from which a user can add a new record. *Compare* Delete record link, Duplicate record link, Edit record link.

paragraph formatting

In the Form Designer, an option that specifies whether paragraph breaks are added to the information placed in a form box.

password

A series of characters that you may be asked to type into a password box on a query screen or an edit screen on the Web. Passwords control what activities you may perform.

PDF

Portable Document Format. PDF is considered the standard for electronic document distribution.

picture box

Box on a form containing a fixed image, or an image referenced in the current record.

predefined query

A query whose criteria are pre-specified. The user can execute the query, usually through a hypertext link, without having to enter query criteria.

primary textbase

Textbase you open explicitly, and which contains at least one Link field. A primary textbase can be linked to one or more secondary textbases, which are opened implicitly when you open the primary textbase.

Public

Denotes textbase elements (forms, query screens, sets, record skeletons) stored in a textbase file rather than in the user file. Public elements are available to all users. Forms must be saved as Public to be used on the Web.

query

Search criteria intended to retrieve records.

query box

Box on a query screen, which searches one or more fields. Users type criteria (that is, words, terms, or comparison expressions) in a query box to search for records.

query screen

The query screen contains boxes into which you type words, terms, or comparison expressions. Each box represents one or more fields to be searched. Also called a search screen.

Query Screen Designer

The tool used to create query screens for searching a textbase.

range search

Search that looks for records that have information in a field that falls within a specified range of values, such as dates. For example, 2001 : 2002 searches for records from 2001 through 2002.

Raw HTML

An item in a form that is intended to be interpreted by an Internet browser as HTML code.

record

Retrievable unit of information in a textbase, generally associated with some kind of item (for example, book, document, customer) or event (for example, sales order, problem report, task).

record-level security

The ability to restrict access (read/write, read, or none) to classes of records within a textbase. Classes are defined with the Access Control field. *See also* Access Control field.

refresh sets

Re-execute the search strategy for saved sets, in order to update the list of records retrieved to reflect changes in the textbase since the searches were last performed.

report

Layout for presentation of multiple records found as the result of a Web search. A report is displayed when a user presses the **Submit Query** button on a Web query screen. Tabular reports (which present information in rows and columns) are often used on the Web.

report form

A form for displaying multiple records at a time, one after another (for example, as a table). *Compare* Display form, Edit form.

Rewind (<<) button

A button automatically added to screens and forms used on the Web that returns you to the last screen of a different type. For example, if you have been viewing records one at a time in a display page, the Rewind (<<) button will return you to the report page from which you accessed the display page. If you click the Rewind (<<) button again, you will be returned to the query screen from which you initiated your search.

schema

A specification describing the tags in an XML document. It details the relationship between the attributes and elements of an XML document.

screen

See query screen; menu screen.

search criteria

All of the information typed or pasted in a query screen to find records.

search screen

See query screen.

secondary textbase

A textbase that is accessed indirectly through a Link field in a primary textbase. *See also* linked textbases.

set

A list of records found by a search, together with the criteria that were used to perform the search.

style sheet

See Cascading Style Sheet, XSL.

TCP/IP

Transmission Control Protocol/Internet Protocol. TCP/IP is the basic communication protocol that is the foundation of the Internet. All other protocols (such as HTTP, FTP, and Gopher) are layered on top of TCP/IP.

text box

A box on a form, query screen, or menu screen containing static text.

textbase

A collection of records containing related information. *See also* record, textbase structure.

textbase default sort

A sort that is defined as part of the textbase structure.

textbase elements

Forms, query screens, record skeletons, and sets. *See also* Public.

textbase file

The main textbase definition file (.TBA), which contains public textbase elements (sets, forms, query screens, and record skeletons).

textbase structure

List of fields and settings that define a textbase.

trailing logo

An image at the bottom of a page. *See also* leading logo.

UNC

Universal Naming Convention. The actual name of a drive (for example, \\SERVER\VOL2), rather than the drive letter (for example, C: \). Recommended on networks and in other situations where drives might be remapped.

URL

Uniform (or Universal) Resource Locator. A naming, or addressing, convention used to locate a site on the World Wide Web or launch a file in its native application. Example: `http://www.inmagic.com`. *See also* file URL.

validation list link

A link on an edit screen that, when clicked, opens the Inmagic Choices Browser from which users can paste valid terms from a validation list into an edit box.

VBScript

A scripting language created by Microsoft that can be embedded into HTML documents for use on the Web. It is a subset of Microsoft's Visual Basic programming language. *Compare* JavaScript.

Web (WWW)

World Wide Web. A network document delivery system that uses HTML as the authoring language and HTTP as the transport protocol. Developed at CERN in Switzerland, the European laboratory for particle physics.

Word Wheel

A dialog box that can be displayed in a Web browser to show indexed words or terms in the current field. Users can paste words and terms from the dialog box and search for them. Word Wheels make searching easier and eliminate trial-and-error searches.

XML

Extensible Markup Language. Used for structured documents and data on the Web. XML uses tags, like HTML, but offers greater flexibility because it gives you the ability to define custom tags.

XML match fields

Match fields uniquely identify a record in the textbase. XML match fields are defined in the textbase structure.

XSL

Extensible Stylesheet Language. Used to create a style sheet to describe the formatting of XML data when it is displayed via a Web browser. An XSL style sheet specifies where information should appear on a page, as well as which fonts, styles, and other formatting attributes should be used. XSL style sheets are also used to transform XML files into Inmagic tagged format for the purpose of importing XML files. *See also* Cascading Style Sheet.

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